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140375

From: Marvich, Maria  
Sent: Tuesday, December 14, 2004 2:22 PM  
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***Please perform an interference search on SEQ ID NO 1 \*838 nucleotides), 3 (145 nucleotides) and 4 (2170 nucleotides)***

Maria Bonovich Marvich  
United States Patent and Trademark Office  
Remsen 2B84  
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571-272-0774

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\*\*\*\*\*

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Searcher: \_\_\_\_\_  
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Date Completed: \_\_\_\_\_  
Searcher Prep/Rev. Time: \_\_\_\_\_  
Online Time: \_\_\_\_\_

\*\*\*\*\*

Type of Search

NA Sequence: # \_\_\_\_\_  
AA Sequence :# \_\_\_\_\_  
Structure: # \_\_\_\_\_  
Bibliographic: \_\_\_\_\_  
Litigation: \_\_\_\_\_  
Patent Family: \_\_\_\_\_  
Other: \_\_\_\_\_

\*\*\*\*\*

Vendors and cost where applicable

STN: \_\_\_\_\_  
DIALOG: \_\_\_\_\_  
QUESTEL/ORBIT: \_\_\_\_\_  
LEXIS/NEXIS: \_\_\_\_\_  
SEQUENCE SYSTEM: \_\_\_\_\_  
WWW/Internet: \_\_\_\_\_  
Other(Specify): \_\_\_\_\_

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: December 20, 2004, 13:34:51 ; Search time 208.111 Seconds  
(without alignments)  
7411.504 Million cell updates/sec

Title: US-09-977-066A-4  
Perfect score: 2170  
Sequence: 1 CTCGAGTGAATAATAAATG.....GAGGGCCCTCCTCCCAAGGT 2170

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 824507 seqs, 355394441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA.\*

1: /cgn2\_6/ptodata/1/ina/5A\_COMB.seq.\*  
2: /cgn2\_6/ptodata/1/ina/5B\_COMB.seq.\*  
3: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq.\*  
4: /cgn2\_6/ptodata/1/ina/6B\_COMB.seq.\*  
5: /cgn2\_6/ptodata/1/ina/PCTUS\_COMB.seq.\*  
6: /cgn2\_6/ptodata/1/ina/backfiles.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
c 1	2050	94.5	229354	4	US-09-765-400-64
c 2	2050	94.5	229354	4	US-09-705-400-64
c 3	1986.4	91.5	13254	1	US-08-276-852-156
c 4	1986.4	91.5	13254	1	US-08-276-852-170
c 5	1986.4	91.5	13254	1	US-08-899-575-156
c 6	1986.4	91.5	13254	1	US-08-899-575-170
c 7	1986.4	91.5	13254	1	US-08-899-575-156
c 8	1986.4	91.5	13254	1	US-08-899-575-170
c 9	1986.4	91.5	13254	5	PCT-US95-08743-156
c 10	1986.4	91.5	13254	5	PCT-US95-08743-170
11	1620.4	74.7	5215	4	US-03-173-053-8
12	1594.4	73.5	4326	3	US-08-760-615-7
13	1593.4	73.0	4928	1	US-08-345-913-1
14	1593.4	73.0	4928	3	US-08-818-562-1
15	1583.4	73.0	4928	3	US-08-628-445-1
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20	1576.6	72.7	5188	4	US-09-628-730-59
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23	1576.4	72.6	5128	4	US-09-721-480-2
24	1576.4	72.6	5459	4	US-09-721-480-4
25	1576.4	72.6	5882	4	US-09-721-480-6
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27	1570.4	72.4	9600	4	US-09-620-925-1

28 1570 72.4 4328 3 US-09-132-808-1 Sequence 1, Appli  
29 1570 72.4 4328 3 US-08-910-647-2 Sequence 2, Appli  
30 1570 72.4 4328 4 US-09-620-925-2 Sequence 2, Appli  
31 1570 72.4 4328 4 US-09-620-260-1 Sequence 1, Appli  
32 1570 72.4 4328 4 US-09-620-259-1 Sequence 1, Appli  
33 1570 72.4 4328 3 US-08-910-647-4 Sequence 4, Appli  
34 1570 72.4 4818 4 US-09-620-925-4 Sequence 4, Appli  
35 1570 72.4 5107 3 US-08-910-647-3 Sequence 3, Appli  
36 1570 72.4 5107 4 US-09-620-925-3 Sequence 3, Appli  
37 1570 72.4 7015 4 US-09-770-315-1 Sequence 1, Appli  
38 1558 71.8 15538 4 US-09-554-337-1 Sequence 1, Appli  
39 1529.4 70.5 3547 4 US-09-340-798A-43 Sequence 43, Appli  
40 1529 70.5 3610 4 US-09-194-949A-1 Sequence 1, Appli  
41 1529 70.5 4261 4 US-09-194-949A-25 Sequence 25, Appli  
42 1528 70.4 5899 4 US-09-173-053-2 Sequence 2, Appli  
43 1527.8 70.4 4864 4 US-09-340-798A-1 Sequence 1, Appli  
44 1518.6 70.0 5676 2 US-08-663-998-3 Sequence 3, Appli  
45 1518.6 70.0 5682 2 US-08-663-998-4 Sequence 4, Appli

#### ALIGNMENTS

RESULT 1

US-09-765-400-64/c

; Sequence 64, Application US/09765400

; Patent No. 6691568

; GENERAL INFORMATION:

; APPLICANT: Ghazal, Peter

; APPLICANT: Huang, Huang

; TITLE OF INVENTION: Generation of Human Cytomegalovirus Yeast Artificial Chromosome

; FILE REFERENCE: 98,299

; CURRENT APPLICATION NUMBER: US/09/765,400

; CURRENT FILING DATE: 2000-11-03

; NUMBER OF SEQ ID NOS: 64

; SOFTWARE: Patentin version 3.1

; SEQ ID NO 64

; LENGTH: 229354

; TYPE: DNA

; ORGANISM: Human cytomegalovirus;

; FEATURE:

; NAME/KEY: misc feature

; OTHER INFORMATION: Human cytomegalovirus strain AD169 (GenBank X17403.1)

US-09-765-400-64

Query Match 94.5% Score 2050; DB 4; Length 229354;

Best Local Similarity 97.9%; Pred. No. 0;

Matches 2129; Conservative 0; Mismatches 40; Indels 5; Gaps 5;

Qy 1 CTCAGTGAATAATAAATGTTGTTGTCGAAATACGCGTTTGTGAGATTCTGTGCGCC 60

Db 174873 CTCAGTGAATAATAAATGTTGTTGTCGAAATACGCGTTTGTGAGATTCTGTGCGCC 174814

Qy 61 GACTAAATTCATGTCGCGCATAGTGTGTTATTCGCGCATAGAGATGGCGATATTGGAA 120

Db 174813 GACTAAATTCATGTCGCGCATAGTGTGTTATTCGCGCATAGAGATGGCGATATTGGAA 174754

Qy 121 AAATCGATATTTCGAAATATGGCATATTGAAATATGTCGCGATGAGTTTCTGTGTAAC 180

Db 174753 AAATCGATATTTCGAAATATGGCATATTGAAATATGTCGCGATGAGTTTCTGTGTAAC 174694

Qy 181 TGATATCGCCATTTTTCGAAAGTGATTTTGGGCATACGCGATATCTGGCGATACGGCT 240

Db 174693 TGATATCGCCATTTTTCGAAAGTGATTTTGGGCATACGCGATATCTGGCGATACGGCT 174634

Qy 241 TATATCGTTTACGGGGGATGGCGATAGACGACTTTGCGCATCTGGGGCATTTCTGTGTGTC 300

Db 174633 TATATCGTTTACGGGGGATGGCGATAGACGACTTTGCGCATCTGGGGCATTTCTGTGTGTC 174574

Qy 301 GCAAAATCCAGTTTTCGATATAGGTGACAGCATATAGGCTATATCCCGCATAGG 360

Db 174573 GCAAAATCCAGTTTTCGATATAGGTGACAGCATATAGGCTATATCCCGCATAGG 174514

QY 361 CGACATCAAGCTGGACATGCGCAATGCATATCGATCTATACATTTGAATCAATATTGGCA 420  
Db 174513 CGACATCAAGCTGGACATGCGCAATGCATATCGATCTATACATTTGAATCAATATTGGCC 174454  
QY 421 ATTAGCCATATTAGTCATTTGGTTATATAGCATAAATCAATATTGGCTATTGGCCATTGCA 480  
Db 174453 ATTAGCCATATTATTCTTTGGTTATATAGCATAAATCAATATTGGCTATTGGCCATTGCA 174394  
QY 481 TAGCTTGATCTATATCAATATATGATCAATTTATTTAGGCTCATGTCCTCAATATGACCGCC 540  
Db 174393 TAGCTTGATCTATATCAATATATGATCAATTTATTTAGGCTCATGTCCTCAATATTACCACC 174334  
QY 541 ATGTTGACATTTGATTTAGTCATTTATTAATAGTAATCAATTTAGGCTCATGTCCTCAATATTAGTTCA 600  
Db 174333 ATGTTGACATTTGATTTAGTCATTTATTAATAGTAATCAATTTAGGCTCATGTCCTCAATATTAGTTCA 174274  
QY 601 TAGCCATATATGAGGTTCCGCGTTTACATAACTTTACGTTAAATGGCCCGCTCG-TGACC 659  
Db 174273 TAGCCATATATGAGGTTCCGCGTTTACATAACTTTACGTTAAATGGCCCGCTCGTACC 174214  
QY 659 GCCCAACGACCCCGCCCATTTGACGTCAATTAATGACGTATGTTCCCATAGTTAAAGCCCAAT 719  
Db 174213 GCCCAACGACCCCGCCCATTTGACGTCAATTAATGACGTATGTTCCCATAGTTAAAGCCCAAT 174154  
QY 720 AGGGAATTTCCATTTGACGTCAATGGTGGAGTATTTACGGTAAATCTGCCACTTTGGCAGT 779  
Db 174153 AGGGAATTTCCATTTGACGTCAATGGTGGAGTATTTACGGTAAATCTGCCACTTTGGCAGT 174094  
QY 780 ACATCAAGTGATATCATATATGCCAAGTTCGCGCCCTTATTTGACGTCAATGACGGTAAATGGC 839  
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Db 173794 CGCAAAATGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGTCGTTTAGTGA 173735  
QY 1140 ACGTCAGATCGCTGGAGACCGCATCCAGCTGTTTGGACCTCCATAGACACCGGG 1199  
Db 173734 ACGTCAGATCGCTGGAGACCGCATCCAGCTGTTTGGACCTCCATAGACACCGGG 173675  
QY 1200 ACCGATCCAGCTCCGCGCCCGGGAACGGTGCATTTGGAACGGGATTTCCCGCTGCCAAGA 1259  
Db 173674 ACCGATCCAGCTCCGCGCCCGGGAACGGTGCATTTGGAACGGGATTTCCCGCTGCCAAGA 173615  
QY 1260 GTGACGTAAAGTACCGCTATAGCTCTATAGGACACCCCTTTGGC-TCTTATGATGCT 1318  
Db 173614 GTGACGTAAAGTACCGCTATAGCTCTATAGGACACCCCTTTGGCTTCTTATGATGCT 173555  
QY 1319 ATACTGTTTTTGGCTTGGGCTTATACACCCCGC-TCCCTTATGCTATAGGTGATGTTAT 1377  
Db 173554 ATACTGTTTTTGGCTTGGGCTTATACACCCCGCTTCTCAITTTATAGGTGATGTTAT 173495  
QY 1378 AGCTTAGCCTTATAGGTGTTGGGTTATTGACCAATTTATGACCACTCCCTTATGGTACGAT 1437  
Db 173494 AGCTTAGCCTTATAGGTGTTGGGTTATTGACCAATTTATGACCACTCCCTTATGGTACGAT 173435

QY 1438 ACTTTCCATTACTTAATCCATAAATGGCTCTTTGGCACAACATATCTCTATTGGCTATATG 1497  
Db 173434 ACTTTCCATTACTTAATCCATAAATGGCTCTTTGGCACAACATCTCTTTATTGGCTATATG 173375  
QY 1498 CCAATACTCTGCTCTTTAGAGACTGACAGGACTCTGTATTTTACAGATGGGTCCTCA 1557  
Db 173374 CCAATACACTGTCTCTTTAGAGACTGACAGGACTCTGTATTTTACAGATGGGTCCTCA 173315  
QY 1558 TTTTATTATTACAAATTTACATATACAAACCGCCCTCCCGTCCCGCAGTTTTTATT 1617  
Db 173314 TTTTATTATTACAAATTTACATATACAAACCGCCCTCCCGCAGTTTTTATT 173255  
QY 1618 AAACATAGCTGGGATCTCCACGCGAATCTCGGCTAGGTTCGGACATGGGCTCTTCT 1677  
Db 173254 AAACATAACGTTGGATCTCCACGCGAATCTCGGCTAGGTTCGGACATGGGCTCTTCT 173195  
QY 1678 CCGGTAGCGCGGAGCTTCCACATCCGAGCCCTGCTCCCATGCTCCAGCGGCTCATGCT 1737  
Db 173194 CCGGTAGCGCGGAGCTTCTACATCCGAGCCCTGCTCCCATGCTCCAGCGACTCATGCT 173135  
QY 1738 CGCTCGGCACTCTCTTGTCTTAAACAGTGGAGCCAGACTTAGGCAOAGCAAAATGCCCCA 1797  
Db 173134 CGCTCGGCACTCTCTTGTCTTAAACAGTGGAGCCAGACTTAGGCAOAGCAAAATGCCCCA 173075  
QY 1798 CCACCAACAGTGTCCGCAACAGCCCGTGGCGGTAGGTTATGCTCTGAAAATGAGCTCG 1857  
Db 173074 CCACCAACAGTGTCCGCAACAGCCCGTGGCGGTAGGTTATGCTCTGAAAATGAGCTCG 173015  
QY 1858 GAGATTGGGCTCGCACCG-TGACGCGAGATGGAAGACTTAAAGGCGCGGCAAGAAAGATG 1916  
Db 173014 GGGAGCGGCTTGCACCGCTGA CGCATTTGGAAGACTTAAAGGCGCGGCAAGAAAGATG 172955  
QY 1917 CAGCAGCTGAGTTGTTGTTATTTGATAAAGTCAAGGTAACTCCCGTTGCGGTGCTGT 1976  
Db 172954 CAGCAGCTGAGTTGTTGTTATTTGATAAAGTCAAGGTAACTCCCGTTGCGGTGCTGT 172895  
QY 1977 TAAAGTGGAGGCGAGTGTAGTCTGACGAGTACTCGTTGCTCGCGCGCGCCACACAGAC 2036  
Db 172894 TAAAGTGGAGGCGAGTGTAGTCTGACGAGTACTCGTTGCTCGCGCGCGCCACACAGAC 172835  
QY 2037 ATAATAGTCAACAGACTAAACAGACTGTTCTCTTCCATGGGCTTTTCTGCACTCACCGTC 2096  
Db 172834 ATAATAGTCAACAGACTAAACAGACTGTTCTCTTCCATGGGCTTTTCTGCACTCACCGTC 172775  
QY 2097 CTTGACACGATGGAGTCTCTGCGCAAGAAAGATGACCCCTGATTAATCTTGACGAGGGC 2156  
Db 172774 CTTGACACGATGGAGTCTCTGCGCAAGAAAGATGACCCCTGATTAATCTTGACGAGGGC 172715  
QY 2157 CCTTCTCTCCAGGT 2170  
Db 172714 CCTTCTCTCCAGGT 172701

## RESULT 2

US-09-705-400-64/c  
; Sequence 64, Application US/09705400  
; Patent No. 6692954  
; GENERAL INFORMATION:  
; APPLICANT: Ghazal, Peter  
; APPLICANT: Huang, Huang  
; TITLE OF INVENTION: Generation of Human Cytomegalovirus Yeast Artificial Chromosome  
; TITLE OF INVENTION: Recombinants  
; FILE REFERENCE: 98,299  
; CURRENT APPLICATION NUMBER: US/09/705,400  
; CURRENT FILING DATE: 2000-11-03  
; NUMBER OF SEQ ID NOS: 64  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 64  
; LENGTH: 229354  
; TYPE: DNA  
; ORGANISM: Human cytomegalovirus  
; FEATURE:  
; NAME/KEY: misc\_feature

OTHER INFORMATION: Human cytomegalovirus strain AD169 (GenBank X17403.1)  
US-09-705-400-64

Query Match 94.5%; Score 2050; DB 4; Length 229354;  
Best Local Similarity 97.9%; Pred. No. 0;  
Matches 2129; Conservative 0; Mismatches 40; Indels 5; Gaps 5;

1 CTGCAGTGAATAAATAATGCTGTTGTCGGAATACGGCTTTTGAGATTCTGTCGCC 60  
Db |||||  
174873 CTGCAGTGAATAAATAATGCTGTTGTCGGAATACGGCTTTTGAGATTCTGTCGCC 174814

61 GACTAAATTCATGTCGGCGCATAGTGGTGTATATCGCCGATAGAGATGGCGATATTGGA 120  
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174813 GACTAAATTCATGTCGGCGCATAGTGGTGTATATCGCCGATAGAGATGGCGATATTGGA 174754

121 AAATCGATATTGAAATATAGGCATATTGAAATATGTCGCGCATGTGATGTTCTGTGTAAC 180  
Qy |||||  
174753 AAATCGATATTGAAATATAGGCATATTGAAATATGTCGCGCATGTGATGTTCTGTGTAAC 174694

181 TGATATCGCAATTTTCCAAAGTGATTTTGGGCATACCGGATCTGGCGATACGGCT 240  
Qy |||||  
174693 TGATATCGCAATTTTCCAAAGTGATTTTGGGCATACCGGATCTGGCGATACGGCT 174634

241 TATATCGTTTACGGGGATGGCGATAGACGACTTTGGCGACTTGGCGGATTTCTGTGTGC 300  
Qy |||||  
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301 GCAAATATCGCAGTTTCGATATAGGTGACGACGATATAGGCTATATCGCCGATAGAG 360  
Qy |||||  
174573 GCAAATATCGCAGTTTCGATATAGGTGACGACGATATAGGCTATATCGCCGATAGAG 174514

361 CGACATCAAGCTGACATGCGCAATGCATATCATCTATACATTTGAATCAATATTGGCA 420  
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421 ATTAGCCATATTAGCTCAATGGTTATATAGCATAAATCAATATTGGCTATTGGCCATTGCA 480  
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174453 ATTAGCCATATTAGCTCAATGGTTATATAGCATAAATCAATATTGGCTATTGGCCATTGCA 174394

481 TAGCTTGATATCATATATGATCATTTATATTGGCTCATGTCCAAATATAGCCGCC 540  
Qy |||||  
174393 TAGCTTGATATCATATATGATCATTTATATTGGCTCATGTCCAAATATAGCCGCC 174334

541 ATGTTGATCATGATATTGATGATGATTAATAGTAAATCAATACGGGGTCAATTAGTTCA 600  
Qy |||||  
174333 ATGTTGATCATGATATTGATGATGATTAATAGTAAATCAATACGGGGTCAATTAGTTCA 174274

601 TAGCCCATATATGAGTTCCGCGTTACATACTTACGTTAAATGCGCGCTCG-TGACC 659  
Qy |||||  
174273 TAGCCCATATATGAGTTCCGCGTTACATACTTACGTTAAATGCGCGCTCG-TGACC 174214

660 GCCCAACGACCCCGCCCATTTGACGTCATTAATGACGATGTTCCCATAGTAAAGCCCAAT 719  
Qy |||||  
174213 GCCCAACGACCCCGCCCATTTGACGTCATTAATGACGATGTTCCCATAGTAAAGCCCAAT 174154

720 AGGACATTTCCATGACGTCATGAGTGGTGGAGTATTTACGTTAAATCTGGCGAGT 779  
Qy |||||  
174153 AGGACATTTCCATGACGTCATGAGTGGTGGAGTATTTACGTTAAATCTGCCACTGGCAGT 174094

780 ACATCAAGTGATCATATGCCAAGTCCGGCCCTATTGACGTCATTAATGACGTTAAATGGC 839  
Qy |||||  
174093 ACATCAAGTGATCATATGCCAAGTCCGGCCCTATTGACGTCATTAATGACGTTAAATGGC 174035

840 CCGCTGGCATTTATGCCCAGTACATGACCTTTACGGGACTTTTCTTACTTGGCAGTACATCT 899  
Qy |||||  
174034 CCGCTGGCATTTATGCCCAGTACATGACCTTTTACGGGACTTTTCTTACTTGGCAGTACATCT 173975

900 ACGTATTAGTCATCGCTATTACATGTTGATGCGGTTTGGCAGTACACCAATGGGCGTG 959  
Qy |||||  
173974 ACGTATTAGTCATCGCTATTACATGTTGATGCGGTTTGGCAGTACACCAATGGGCGTG 173915

960 GATAGCGGTTTGAATCAGGGGATTTCCAACTCTCCACCCCATTTGACGTCATTAATGGGAGTT 1019  
Qy |||||

173914 GATAGCGGTTTGAATCAGGGGATTTTCCAAGTCTCCACCCCATTTGACGTCATTAATGGAGTT 173855

1020 TGTGTTGGCAACCAAAATCAACGGGACTTTTCAAAATGTCGTAATAAACCCGCCCGCTTGA 1079  
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173854 TGTGTTGGCAACCAAAATCAACGGGACTTTTCAAAATGTCGTAATAAACCCGCCCGCTTGA 173795

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173794 CGAAATAGGCGGTAGCGGTGACGTTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGA 173735

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173614 GTGACGTAACTACCGCTATAGACTCTATAGGACACCCCTTTGGCTTCTTATCATGCT 173555

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173554 ATACTGTTTGTGGCTTGGGCTTATACACCCCGCTTCTCATGTTATAGGTGATGCTAT 173495

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173494 AGCTTAGCTTATAGGTGGGTTATTGACCATTTATGACCACTCCCTTATTTGGTGACGAT 173435

1438 ACTTCCATTTACTTAATCAATACATGCTCTTTGGCCAACTCTCTTTATTTGGCTATATG 1497  
Qy |||||

173434 ACTTCCATTTACTTAATCAATACATGCTCTTTGGCCAACTCTCTTTATTTGGCTATATG 173375

1498 CCAATACTCTGCTTCCAGAGACTGACACGGAATCTGTAATTTTACAGGATGGGCTCCCA 1557  
Qy |||||

173374 CCAATACTCTGCTTCCAGAGACTGACACGGAATCTGTAATTTTACAGGATGGGCTCCCA 173315

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Qy |||||

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1618 AAACATAGCTGGGATCTCCACGGAATCTCGGCTAGCTGTTCCGGACATGGGCTCTTCT 1677  
Qy |||||

173254 AAACATAGCTGGGATCTCCACGGAATCTCGGCTAGCTGTTCCGGACATGGGCTCTTCT 173195

1678 CCGGTAGCGCGGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGCT 1737  
Qy |||||

173194 CCGGTAGCGCGGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGCT 173135

1738 CGCTCGGACGCTCTTGTCTTAAACAGTGAGGCGAGCTTATAGGCAACAGCAATGGCCA 1797  
Qy |||||

173134 CGCTCGGACGCTCTTGTCTTAAACAGTGAGGCGAGCTTATAGGCAACAGCAATGGCCA 173075

1798 CCACCACTGTCGCGCAAGGCGGTGGGTAGGTTATGTTCTGTAATAATGAGCTCG 1857  
Qy |||||

173074 CCACCACTGTCGCGCAAGGCGGTGGGTAGGTTATGTTCTGTAATAATGAGCTCG 173015

1858 GAGATTGGGCTCGCACCG-TGACGCGAGATGGAAGACTTTAAGGCGACGCGGCAAGAAATG 1916  
Qy |||||

173014 GGGAGCGGCTTGCAACGCTGACGCAATTTGGAAGACTTTAAGGCGACGCGCAAGAAATG 172955

1917 CAGGAGCTGAGTTGTTGATTTCTGATAAGAGTCAGAGGTAACTCCCGTGGCTGCTGT 1976  
Qy |||||

172954 CAGGAGCTGAGTTGTTGTTCTGATAAGAGTCAGAGGTAACTCCCGTGGCTGCTGT 172895

1977 TAACGTTGGAGGCGAGTGTAGTCTGACGACTCTGTTGCTGCGCGCGGCCACCCAGAC 2036  
Qy |||||

172894 TAACGTTGGAGGCGAGTGTAGTCTGACGACTCTGTTGCTGCGCGCGGCCACCCAGAC 172835

2037 ATAATAGCTACAGACTTAACAGACTGTTCTCTTCCATGGGTCTTTCTGAGTCAACCGTC 2096  
Qy |||||

172834 ATAATAGCTACAGACTTAACAGACTGTTCTCTTCCATGGGTCTTTCTGAGTCAACCGTC 172775

QY 2097 CTTGACGATGGAGTCTCTGCGCAAGAGAAAGATGGACCTGATAATCCTGACGAGGC 2156  
Db 172774 CTTGACGATGGAGTCTCTGCGCAAGAGAAAGATGGACCTGATAATCCTGACGAGGC 172715

QY 2157 CTTCTCTCCAAGGT 2170  
Db 172714 CTTCTCTCCAAGGT 172701

## RESULT 3

US-08-276-852-156  
; Sequence 156, Application US/08276852  
; Patent No. 5652138  
; GENERAL INFORMATION:  
; APPLICANT: Burton, Dennis R  
; APPLICANT: Barbas, Carlos F  
; APPLICANT: Leiner, Richard A  
; TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES  
; TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS  
; NUMBER OF SEQUENCES: 170  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: The Scripps Research Institute, Office of  
; ADDRESSEE: Patent Counsel  
; ADDRESS: 10666 No. 5652138th Torrey Pines Road, Suite 220,  
; STREET: Mail Drop TPC8  
; CITY: La Jolla  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 92037

COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/276,852  
; FILING DATE: 18-JUL-1994  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/178,302  
; FILING DATE: 30-SEP-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/954,148  
; FILING DATE: 30-SEP-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fitting, Thomas  
; REGISTRATION NUMBER: 34,163  
; REFERENCE/DOCKET NUMBER: SCR1452P  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 619-554-2937  
; TELEFAX: 619-554-6312

INFORMATION FOR SEQ ID NO: 156:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 13254 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: circular  
; MOLECULE TYPE: DNA (genomic)  
US-08-276-852-156

Query Match 91.5%; Score 1986.4; DB 1; Length 13254;  
Best Local Similarity 97.8%; Pred. No. 0;  
Matches 2066; Conservative 0; Mismatches 41; Indels 5; Gaps 5;

QY 1 CTGCAAGTAATAAATGTTGTTGTCGCAATACCGTTTGGAGATTCTGTCGCC 60  
Db 274 CTGCAAGTAATAAATGTTGTTGTCGCAATACCGTTTGGAGATTCTGTCGCC 333  
QY 61 GACTAAATTCATGTCGCGCGATAGTGGTGTATCGCCGATAGAGATGGCGATATTGGAA 120  
Db 334 GACTAAATTCATGTCGCGCGATAGTGGTGTATCGCCGATAGAGATGGCGATATTGGAA 393

QY 121 AAATCGATATTTGAAATATGGCATATTTGAAATGTCGCCGATGTGAGTTTCTGTGTAAC 180  
Db 394 AAATCGATATTTGAAATATGGCATATTTGAAATGTCGCCGATGTGAGTTTCTGTGTAAC 453  
QY 181 TGTATTCGCCATTTTCCAAAAGTGTGTTTGGGCATACGCGATATCTGCGCATACGGCT 240  
Db 454 TGTATTCGCCATTTTCCAAAAGTGTGTTTGGGCATACGCGATATCTGCGCATACGGCT 513  
QY 241 TATATCGTTTACGGGGGATGGCGATAGACGACTTTGGCGACTTTGGCGATTTCTGTGTGTC 300  
Db 514 TATATCGTTTACGGGGGATGGCGATAGACGACTTTGGCGACTTTGGCGATTTCTGTGTGTC 573  
QY 301 GCAAAATACGAGTTTCGATATAGGTGACAGACGATATAGGGCTATATCCCGATAGAG 360  
Db 574 GCAAAATACGAGTTTCGATATAGGTGACAGACGATATAGGGCTATATCCCGATAGAG 633  
QY 361 CGACATCAAGCTGCGCATGCGCAATGCATATGCATCTATACATTTGAATCAATATTGGCA 420  
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QY 421 ATTAGCCATATTAGTCAATTTGGTTATATAGCATAAATCAATATTGGCTATTGGCCATTGCA 480  
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QY 481 TACGTTGATCTATATCATTAATATGATCATTTATTTGGCTCATGTCCAATATGACCGCC 540  
Db 754 TACGTTGATCTATATCATTAATATGATCATTTATTTGGCTCATGTCCAATATGACCGCC 813  
QY 541 ATGTTGACATTGATTATTGACTAGTTTAAATAGTAATCAATTACGGGGTCAATTAGTTCA 600  
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QY 601 TAGCCCATATATGGAGTTCGCGTTACATAACTTACGGTAAATGGCGGCTCG-TGACC 659  
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QY 660 GCCCAACGACCCCGCCCATGAGTCAATAAGACGATATGTTCCCATAGTAACGCCAAT 719  
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QY 780 ACATCAAGTGTATCATATGCGAAGTCCGCGCCCTTATGACGTCAATGACGTAATATGGC 839  
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QY 900 ACGTATTAGTCAATCGCTATTACCATGTTGATGCGGTTTGGCAGTACACCAATGGCGTG 959  
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QY 1080 CGCAAAATGGCGGTAGGCGTGTACGGTGGGAGGCTATATAAGCAGAGAGTCTGTTTGTGTA 1139  
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QY 1200 ACCGATCCAGCTCCGCGCGGGAAACGGTGTGATTGGAAACGGGATTTCCCGTGGCAAGA 1259

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Db 1533 GTGACGTAAGTACCGCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCAATGCT 1592
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Db 1593 ATACTGTTTTGGCTTGGGCGCTATACACCCCGCTCTCTCATGTTATAGTGATGAT 1652
Qy 1378 AGCTTAGCTATAGTGTGGGTATTGACCACTATTGACCACTCCCTATTGGTGACGAT 1437
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Db 2013 CGCTCGCAGCTCTGCTCTTAACAGTGGAGGCGAGACTTAGGCACAGCAATGCCCA 2072
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Qy 2037 ATAATAGCTGACAGCTAAACAGACTGTTCTTTTCCATGGGCTTTTCTGCACTCACCGTC 2096
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Qy 2097 CTTGACACGATG 2108
Db 2373 CTTGACACGATG 2384
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## RESULT 4

US-08-276-852-170/c

; Sequence 170, Application US/08276852

; Patent No. 5652138

; GENERAL INFORMATION:

; APPLICANT: Burton, Dennis R

; APPLICANT: Barbas, Carlos F

; APPLICANT: Lerner, Richard A

; TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES

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; TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS
; NUMBER OF SEQUENCES: 170
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: The Scripps Research Institute, Office of
; ADDRESSEE: Patent Counsel
; STREET: 10666 No. 5652138th Torrey Pines Road, Suite 220,
; STREET: Mail Drop TPC8
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/276,852
; FILING DATE: 18-JUL-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/178,302
; FILING DATE: 30-SEP-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/954,148
; FILING DATE: 30-SEP-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Fitting, Thomas
; REGISTRATION NUMBER: 34,163
; REFERENCE/DOCKET NUMBER: SCRI452P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-554-2937
; TELEFAX: 619-554-6312
; INFORMATION FOR SEQ ID NO: 170:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 13254 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: circular
; MOLECULE TYPE: DNA (genomic)
; US-08-276-852-170
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Query Match 91.58; Score 1986.4; DB 1; Length 13254;
Best Local Similarity 97.8%; Pred. No. 0;
Matches 2066; Conservative 0; Mismatches 41; Indels 5; Gaps 5;

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Qy 121 AAATCGATATTTGAAATATGTCATATTTGAAATGTCGCGATGTGAGTTCTGTGTAAC 180
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Qy 301 GCAAAATCCAGTTTTCGATATAGGTCAACAGCATATAGGCTATATCCCGGATAGAG 360
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Qy 361 CGACATCAAGTCGACATGCGCAATGCATATCCATCTATACATTTGAATCAATATTGGCA 420
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Qy 1438 ACTTTCCATATCAATCCATACAGCTCTTTTGGCACAACATCTCTTATTGGCTATATG 1497
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Qy 1858 GAGATTGGGCTCGCACCG-TGACGCAGATGGAAGCTTAAAGGAGCGGCGAGAGAAAGATG 1916
Db 11122 GGGAGCGGGCTTGACCGCTGACGCAATTTGGAAGACTTAAAGGAGCGGCGAGAGAAAGATG 11063
Qy 1917 CAGGACGCTGAGTTGTTGTTATTTCTGATAAGAGTCAGAGGTAACTCCCGTTGCGGTGCTGT 1976
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Qy 1977 TAAAGTGGAGGCGAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGGCGCCACAGAC 2036
Db 11002 TAAAGTGGAGGCGAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGGCGCCACAGAC 10943
Qy 2037 ATAATAGCTGACAGACTAAACAGACTGTTCCCTTCCATGGGCTCTTTCTGCACTCACCGTC 2096
Db 10942 ATAATAGCTGACAGACTAAACAGACTGTTCCCTTCCATGGGCTCTTTCTGCACTCACCGTC 10883
Qy 2097 CTTGACACGAGTG 2108
Db 10882 CTTGACACGAG 10871
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RESULT 5  
US-08-899-575-156  
; Sequence 156 Application US/08899575  
; Patent No. 5770440  
; GENERAL INFORMATION:  
; APPLICANT: Burton, Dennis R  
; APPLICANT: Barbas, Carlos F  
; APPLICANT: Lerner, Richard A  
; TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES  
; TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS  
; NUMBER OF SEQUENCES: 170  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: The Scripps Research Institute, Office of  
; ADDRESSEE: Patent Counsel  
; STREET: 10666 No. 5770440th Torrey Pines Road, Suite 220,  
; STREET: Mail Drop TPC8  
; CITY: La Jolla  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 92037  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/899,575  
; FILING DATE: 24-JUL-1997



CLASSIFICATION: 435  
PRIOR APPLICATION DATA: US 08/276,852  
FILING DATE: 18-JUL-1994  
APPLICATION NUMBER: US 08/178,302  
FILING DATE: 30-SEP-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/954,148  
FILING DATE: 30-SEP-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Fitting, Thomas  
REGISTRATION NUMBER: 34,163  
REFERENCE/DOCKET NUMBER: SCR1452P  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 619-554-2937  
TELEFAX: 619-554-6312  
INFORMATION FOR SEQ ID NO: 156:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 13254 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: circular  
MOLECULE TYPE: DNA (genomic)  
US-08-899-575-156

Query Match 91.5%; Score 1986.4; DB 1; Length 13254;  
Best Local Similarity 97.8%; Pred. No. 0;  
Matches 2066; Conservative 0; Mismatches 41; Indels 5; Gaps 5;

Qy	1	CTGCAGTGAATAATAAATGTTGTTGTCGGAATAACGCGTTTGGAGATTCTCTGCGCC	60
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Db	454	TGATATCGCATTTTCCAAAGTGAATTTTGGGCATACGGGATATCTGGCGATACGGCT	513
Qy	241	TATATCGTTTACGGGGATGCGGATAGACGACTTTTGGCGACTTGGCGGATTTCTGTGTC	300
Db	514	TATATCGTTTACGGGGATGCGGATAGACGACTTTTGGCGACTTGGCGGATTTCTGTGTC	573
Qy	301	GCAATATCGCAGTTTCGATATAGGTGACAGACGATATGAGGCTATATCGCGGATAGAG	360
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Db	634	CGACATCAAGCTGCACATGCGCAATCGATCTATACATTTGAATCAATATTGGCC	693
Qy	421	ATTAGCCATATTAGTCAATTGTTATATAGCATAAATCAATATTGGCTATTGGCCATTGCA	480
Db	694	ATTAGCCATATTATTGTTTATATAGCATAAATCAATATTGGCTATTGGCCATTGCA	753
Qy	481	TACGTTGATCTATATCAATAATATGTACATTTATTTGGCTCATGTCCAATATGACCGCC	540
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Db	874	TAGCCCATATATGAGTTCCCGTTTACATAACTTTACGGTAAATGGCCCGCTCGTGNCC	933

Qy	660	GCCCAACGACCCCGCCATTGACGTCAATAATAGCATATGTTCCCATAGTAACGCCAAT	719
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Qy	720	AGGGACTTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAAATCTCCCACTGGCAGT	779
Db	994	AGGGACTTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAAATCTCCCACTGGCAGT	1053
Qy	780	ACATCAAGTGTATCATATGCAAGTCCGGGCCCTTATGACGTCAATAGCGGTAATAGGC	839
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Qy	840	CCGCTCGCATTTATGCCAGTACATGACCTTTACGGGACTTTCTTACTTTGGCAGTACATCT	899
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Qy	900	ACGTATTAGTCAATCGCTATTACCATGTTGATGCGGTTTTGGCAGTACACCAATGGCGTG	959
Db	1173	ACGTATTAGTCAATCGCTATTACCATGTTGATGCGGTTTTGGCAGTACATCAATGGCGTG	1232
Qy	960	GATAGCGTTTGAATCAGCGGGATTTTCAAGTCTCCACCCCATGACGTCAATGGGAGTT	1019
Db	1233	GATAGCGTTTGAATCAGCGGGATTTTCAAGTCTCCACCCCATGACGTCAATGGGAGTT	1292
Qy	1020	TGTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTAATAACCCCGCCCGTTGA	1079
Db	1293	TGTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTAATAACCCCGCCCATGGA	1352
Qy	1080	CGAAATGGCGGTAGCGGTGTACGGTGGGAGTCTATATAAGCAGAGCTCGTTTAGTGA	1139
Db	1353	CGAAATGGCGGTAGCGGTGTACGGTGGGAGTCTATATAAGCAGAGCTCGTTTAGTGA	1412
Qy	1140	ACCGTCAAGTCTGCGTGGAGACGCGATCCACGCTGTTTGTGACCTCCATAGAAGACACCGGG	1199
Db	1413	ACCGTCAAGTCTGCGTGGAGACGCGATCCACGCTGTTTGTGACCTCCATAGAAGACACCGGG	1472
Qy	1200	ACCGATCCAGCTCCGCGGCGGGAAACGGTGATTTGGAACGGGATTTCCCGTCCCAAGA	1259
Db	1473	ACCGATCCAGCTCCGCGGCGGGAAACGGTGATTTGGAACGGGATTTCCCGTCCCAAGA	1532
Qy	1260	GTGACGTAAGTACCGCTATAGACTCTATAGGCACACCCCTTTTGGC-TCTTATGCATGCT	1318
Db	1533	GTGACGTAAGTACCGCTATAGACTCTATAGGCACACCCCTTTTGGCTTCTTATGCATGCT	1592
Qy	1319	ATACTGTTTTTGGCTTGGGCGCTATACACCCCGC-TCTTATAGCTATAGGTGATGAT	1377
Db	1593	ATACTGTTTTTGGCTTGGGCGCTATACACCCCGCTTCTCATGTTATAGGTGATGAT	1652
Qy	1378	AGCTTAGCCTATAGGTGCGGTTTATGACCATTTATGACCATCTCCCTATTTGGTGACGAT	1437
Db	1653	AGCTTAGCCTATAGGTGCGGTTTATGACCATTTATGACCATCTCCCTATTTGGTGACGAT	1712
Qy	1438	ACTTTCCATTTACTAATCCATAACATGGCTCTTTGGCACAACTATCTCTATTGGGTATATG	1497
Db	1713	ACTTTCCATTTACTAATCCATAACATGGCTCTTTGGCACAACTCTCTTATTGGGTATATG	1772
Qy	1498	CCAATACTCTGTCTTCCAGAGACTGACACGAGCTCTGTATTTTACAGGATGGGGTCCCA	1557
Db	1773	CCAATACACTGTCTTCCAGAGACTGACACGAGCTCTGTATTTTACAGGATGGGGTCTCA	1832
Qy	1558	TTTATTTTACAAATTCACATATACAAACCGCGTCCCGGCGCGGAGTTTATTT	1617
Db	1833	TTTATTTTACAAATTCACATATACAAACCGCGTCCCGGCGCGGAGTTTATTT	1892
Qy	1618	AAACATAGCTGGGATCTCCACGCGAATCTCGGGTACGTGTTCCGGACATGGGCTCTTCT	1677
Db	1893	AAACATAGCTGGGATCTCCACGCGAATCTCGGGTACGTGTTCCGGACATGGGCTCTTCT	1952
Qy	1678	CCGGTAGCGCGGAGCTTCCACATCCGAGCCTGGTCCCATGCTCCAGCGGCTCATGGT	1737
Db	1953	CCGGTAGCGCGGAGCTTCTACATCCGAGCCTGCTCCCATGCTCCAGCGACTCATGGT	2012
Qy	1738	CGCTCGGAGCTCTGCTCTCTAACAGTGGAGGCCAGACTTAGGCAAGCAATGCCCA	1797

Db 2013 CGCTCGGAGCTCCTTGTCTCTAAACAGTGGAGGCCAGACTTAGGCACAGCAGCATGCCCA 2072  
Qy 1798 CCACACAGAGTGC CGCACAGGCGGTGGCGGTAGGGTATGTCTCTGAAATCAGCTCG 1857  
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Qy 1858 GAGATTGGGCTCGCACCG-TGACGCGAGATGGAAGACTTTAAGCGCAGCGCAGAAAGATG 1916  
Db 2133 GGGAGCGGCTTGACACCGCTGACGCACTTTGGAAGACTTTAAGCGCAGCGCAGAAAGATG 2192  
Qy 1917 CAGGAGCTGAGTTGTTGTTATCTGATTAAGAGTCAAGGTAACCTCCCGTTGCGGTGCTGT 1976  
Db 2193 CAGGAGCTGAGTTGTTGTTATCTGATTAAGAGTCAAGGTAACCTCCCGTTGCGGTGCTGT 2252  
Qy 1977 TAAAGTGGAGGCGAGTGTAGTCTGAGCAGTACTGTTGCTGCGCGCGCGCCACCCAGAC 2036  
Db 2253 TAAAGTGGAGGCGAGTGTAGTCTGAGCAGTACTGTTGCTGCGCGCGCGCCACCCAGAC 2312  
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Qy 2097 CTTGACAGATG 2108  
Db 2373 CTTGACAGAAAG 2384

RESULT 6

US-08-899-575-170/c  
; Sequence 170, Application US/08899575  
; Patent No. 5770440  
; GENERAL INFORMATION:  
; APPLICANT: Burton, Dennis R  
; APPLICANT: Barbas, Carlos F  
; APPLICANT: Lerner, Richard A  
; TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES  
; TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS  
; NUMBER OF SEQUENCES: 170  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: The Scripps Research Institute, Office of  
; ADDRESSEE: Patent Counsel  
; STREET: 10666 No. 5770440th Torrey Pines Road, Suite 220,  
; CITY: La Jolla  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 92037  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; FILING DATE: US/08/899,575  
; APPLICATION NUMBER: 24-JUL-1997  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/276,852  
; FILING DATE: 18-JUL-1994  
; APPLICATION NUMBER: US 08/178,302  
; FILING DATE: 30-SEP-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/954,148  
; FILING DATE: 30-SEP-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fitting, Thomas  
; REGISTRATION NUMBER: 34,163  
; REFERENCE/DOCKET NUMBER: SCRI452P  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 619-554-2937  
; TELEFAX: 619-554-6312  
; INFORMATION FOR SEQ ID NO: 170:

; SEQUENCE CHARACTERISTICS:  
; LENGTH: 13254 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: circular  
; MOLECULE TYPE: DNA (genomic)  
US-08-899-575-170  
Query Match 91.5%; Score 1986.4; DB 1; Length 13254;  
Best Local Similarity 97.8%; Pred. No. 0;  
Matches 2066; Conservative 0; Mismatches 41; Indels 5; Gaps 5;  
Qy 1 CTGCAAGTAAATAATAAATGTGTGTTCGGAATACGCGTTTGGAGATTCTGTCTGCC 60  
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Qy 121 AAATCGATATTGAAATATGGCATATTGAAATGTCCCGATGTGAGTTTCTGTGTAAC 180  
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Qy 181 TGATATCGCATTTTCCAAAAGTGTATTTGGGCATACCGCATATCTGGCGATACGGCT 240  
Db 12801 TGATATCGCATTTTCCAAAAGTGTATTTGGGCATACCGCATATCTGGCGATACGGCT 12742  
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Qy 301 GCAATATCGCAGTTTCGATATAGGTGACAGACGATATAGGGCTATATTCGCCGATAGAGG 360  
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Qy 421 ATTAGCCATATTAGTCAATTTGTTATATAGCATAAATCAATATTGGCTATTGGCCATTGCA 480  
Db 12561 ATTAGCCATATTAGTCAATTTGTTATATAGCATAAATCAATATTGGCTATTGGCCATTGCA 12502  
Qy 481 TACGTTGTATCTATATCAATATATGTAATTTATTTGGCTCAATGTCATATGACCGCC 540  
Db 12501 TACGTTGTATCTATATCAATATATGTAATTTATTTGGCTCAATGTCATATGACCGCC 12442  
Qy 541 ATGTTGACATTGATTATTGACTAGTTTATTAAGTAAATCAATTAACGGGTCATTAGTTCA 600  
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Db 12381 TAGCCCATATATGGAGTTCCGCGTTTACATAACTTTACCGTAAATGGCCCGCTCGTACC 12322  
Qy 660 GCCCAACGACCCCGCCCATTTGACGTCAATTAATGACGTATGTTCCCATAGTAAGCCCAAT 719  
Db 12321 GCCCAACGACCCCGCCCATTTGACGTCAATTAATGACGTATGTTCCCATAGTAAGCCCAAT 12262  
Qy 720 AGGAGCTTTCCATTGACGTCAATGGGTGGAGTATTACGGTAAATGCCACTTGGCAGT 779  
Db 12261 AGGAGCTTTCCATTGACGTCAATGGGTGGAGTATTACGGTAAATGCCACTTGGCAGT 12202  
Qy 780 ACATCAAGTGTATCATATGCCAAGTCCGCGCCCTTATTGACGTCAATGACGGTAAATGGC 839  
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Db 12142 CCGCTGGCATATTATGCCAGTACATGACCTTTTATGAGGAGCTTTTCTTATGCGGAGTACATCT 12083  
Qy 900 ACGTATTAGTCAATCGCTATTACCATGGTGTGTCGGTGTGTCGAGTACACCAATGGCGGTG 959

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Qy 1140 ACCGTGAGATCGCTGAGAGCGCCATCCAGCTGTTTGGACCTCCATAGAGACACCGGG 1199  
Db 11842 ACCGTGAGATCGCTGAGAGCGCCATCCAGCTGTTTGGACCTCCATAGAGACACCGGG 11783  
Qy 1200 ACCGATCCAGCTCCGCGCGCGGAAACGGTGCAATTCGAAACGGGATTCGCCGTCGCAAGA 1259  
Db 11782 ACCGATCCAGCTCCGCGCGCGGAAACGGTGCAATTCGAAACGGGATTCGCCGTCGCAAGA 11723  
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Db 11662 ATACTGTTTTGGCTTGGGCGCTATACACCCCGC-TCTTATGCTATAGGTGATGAT 11603  
Qy 1378 AGCTTAGCCTATAGGTGGGTATTTGACCAATTTAGCCACTCCCTATTTGGTGACAT 1437  
Db 11602 AGCTTAGCCTATAGGTGGGTATTTGACCAATTTAGCCACTCCCTATTTGGTGACAT 11543  
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Db 11542 ACTTTCATTAATCAATAACATGCTCTTTGCCAACAATCTCTATTGGGTATATG 11483  
Qy 1498 CCAATATCTGTCTTCCAGAGACTGACACGGACTCTGTATTTTTCAGGATGGGGTCCCA 1557  
Db 11482 CCAATATCTGTCTTCCAGAGACTGACACGGACTCTGTATTTTTCAGGATGGGGTCCCA 11423  
Qy 1558 TTATTTATTTACAAATTCACATATACAAACGGCGTCCCGGTCGCGCAGTTTATT 1617  
Db 11422 TTTATTTATTTACAAATTCACATATACAAACGGCGTCCCGGTCGCGCAGTTTATT 11363  
Qy 1618 AACATAGCGTGGATCTCCACGGGAATCTCGGTAAGTGTTCGGACATGGGCTCTCT 1677  
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Qy 1678 CCGGTAGCGGCGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGGT 1737  
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Db 11242 CGCTCGGAGCTCTTGTCTCTAAGTGGAGGCGCAGCTTAGGACAGACAAATGCCCA 11183  
Qy 1798 CCACACAGTGTCCGCGACAAAGCCGTTGGCGGTAGGATGTCTCTGAAATCAGCTCG 1857  
Db 11182 CCACACAGTGTCCGCGACAAAGCCGTTGGCGGTAGGATGTCTCTGAAATCAGCTCG 11123  
Qy 1858 GAGATTGGGCTCGCACCG-TGACGACAGATGGAAGACTTAAGGACAGCGGCGAAGAAATG 1916  
Db 11122 GGGAGCGGCTTGACCGCTGACCAATTTGGAAGACTTAAGGACAGCGGCGAAGAAATG 11063  
Qy 1917 CAGGACGTAGTTGTTGTTATTTGATTAAGTCAAGGTGAACTCCCGTTGCGGTGCTGT 1976  
Db 11062 CAGGACGTAGTTGTTGTTATTTGATTAAGTCAAGGTGAACTCCCGTTGCGGTGCTGT 11003  
Qy 1977 TAACGGTGGAGGCGAGTGTAGTCTGACAGTACTCTGTTGCTGCGCGCGCCACACAGAC 2036

Db 11002 TAACGGTGGAGGCGAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCCACACAGAC 10943  
Qy 2037 ATAATAGCTGACAGACTAACAGACTGTTCCCTTTCCATGGGTCTTTCTGAGTCACCGTC 2096  
Db 10942 ATAATAGCTGACAGACTAACAGACTGTTCCCTTTCCATGGGTCTTTCTGAGTCACCGTC 10883  
Qy 2097 CTTGACACGATG 2108  
Db 10882 CTTGACACGAAG 10871  
RESULT 7  
US-08-899-575-156  
; Sequence 156, Application US/08899575  
; Patent No. 5804440  
; GENERAL INFORMATION:  
; APPLICANT: Burton, Dennis R  
; APPLICANT: Barbas, Carlos F  
; APPLICANT: Lerner, Richard A  
; TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES  
; TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS  
; NUMBER OF SEQUENCES: 170  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: The Scripps Research Institute, Office of  
; ADDRESSEE: Patent Counsel  
; STREET: 10666 No. 5804440th Torrey Pines Road, Suite 220,  
; STREET: Mail Drop 1PC8  
; CITY: La Jolla  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 92037  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/899,575  
; FILING DATE: 24-JUL-1997  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/276,852  
; FILING DATE: 18-JUL-1994  
; APPLICATION NUMBER: US 08/178,302  
; FILING DATE: 30-SEP-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/954,148  
; FILING DATE: 30-SEP-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fitting, Thomas  
; REGISTRATION NUMBER: 34,163  
; REFERENCE/DOCKET NUMBER: SCRI452P  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 619-554-2937  
; TELEFAX: 619-554-6312  
; INFORMATION FOR SEQ ID NO: 156:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 13254 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: circular  
; MOLECULE TYPE: DNA (genomic)  
; US-08-899-575-156

Query Match 91.5%; Score 1986.4; DB 1; Length 13254;  
Best Local Similarity 97.8%; Pred. No. 0;  
Matches 2066; Conservative 0; Mismatches 41; Indels 5; Gaps 5;  
Qy 1 CTCAGTGAATAATAAATGTGTGTTCGAAATACGCGTTTGTGAGATTTCTGTGCGCC 60  
Db 274 CTCAGTGAATAATAAATGTGTGTTCGAAATACGCGTTTGTGAGATTTCTGTGCGCC 333  
Qy 61 GACTAAATTCATGTCGCGCGATAGTGTGTATTATCGCCGATAGAGATGGCGATATTGAA 120

Db 334 GACTAAATTCATGTCGCGGATAGTGTGTGTTTTCGCGGATAGAGATGGCGATATTGAA 393  
Qy 121 AAATCGATATTTGAAATATGCGATATGAAATATGTCGCGATGAGTGTCTGTGTAAC 180  
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Db 1293 TGTTTTGGCACCACCAATCAACGGGACTTTCCAAATATGCTGTAATTAACCCCGCGCTTGA 1352  
Qy 1080 CGCAATATGGCGGTAGGCGTGTACGTTGGGAGGTCTATATAAGCAGAGTCTGTTTAGTGA 1139  
Db 1353 CGCAATATGGCGGTAGGCGTGTACGTTGGGAGGTCTATATAAGCAGAGTCTGTTTAGTGA 1412  
Qy 1140 ACCGTGAGTCCGCTGGAGACGCGCATCCACGCTGTTTTGACCTTCCATAGAACACCGGG 1199

Db 1413 ACCGTGAGATCGCTCGAGACGCCATCCACGCTGTTTTGACCTCCATAGAAACACCGGG 1472  
Qy 1200 ACCGATCCAGCTTCCGCGCGCGGAAACGGTGCAATTGAAACGCGGATTTCCCGTGCCAAAGA 1259  
Db 1473 ACCGATCCAGCTTCCGCGCGCGGAAACGGTGCAATTGAAACGCGGATTTCCCGTGCCAAAGA 1532  
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Db 1593 ATACTGTTTTGGCTTGGGCTTATACACCCCGGCTCTCTATATGCTATAGGTGATGCTAT 1652  
Qy 1378 AGCTTACCTTATAGGTGCTGTTTATGACCATTTATGACCATCTCCCTATTGCTGACGAT 1437  
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Qy 1678 CCGGTAGCGGCGAGCTTCCACATCCGAGCCTGCTCCCATGCTCCAGCGGCTCATGGT 1737  
Db 1953 CCGGTAGCGGCGAGCTTCCACATCCGAGCCTGCTCCCATGCTCCAGCGGCTCATGGT 2012  
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Db 2013 CGCTCGGCGAGCTCTCTCTCTTAAACAGTGGAGGCGAGACTTAGGCAACAGATGCCCCA 2072  
Qy 1798 CCACCAACAGTGTCCCGCACAAGGCGGTGGGGTAGGGTATGTTCTGTAATGAGCTCG 1857  
Db 2073 CCACCAACAGTGTCCCGCACAAGGCGGTGGGGTAGGGTATGTTCTGTAATGAGCTCG 2132  
Qy 1858 GAGATTGGGCTCGCACCG-TGACGCGAGATGGAAGACTTAAGCGAGCGGCGAGAAAGATG 1916  
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Qy 1917 CAGGCGAGTGAAGTTGTTGTTATTTGATAAGAGTCAAGGTTAACTCCCGCTTGGGCTGCTGT 1976  
Db 2193 CAGGCGAGTGAAGTTGTTGTTGTTCTGATAAGAGTCAAGGTTAACTCCCGCTTGGGCTGCTGT 2252  
Qy 1977 TAAAGGTTGGAGGCGAGTGTCTGAGCAGTACTGTTGCTGCGCGCGCGCCACAGAC 2036  
Db 2253 TAAAGGTTGGAGGCGAGTGTCTGAGCAGTACTGTTGCTGCGCGCGCGCCACAGAC 2312  
Qy 2037 ATAATAGCTGACAGACTTAAACAGACTGTTTCCCTTTTCCATGGGCTCTTTTCTGCAAGTCAACGCTC 2096  
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Qy 2097 CTTGACAGATG 2108  
Db 2373 CTTGACAGATG 2108  
Db 2373 CTTGACAGATG 2108

RESULT 8  
US-08-899-575-170/c  
; Sequence 170, Application US/08899575  
; Patent No. 5804440  
; GENERAL INFORMATION:  
; APPLICANT: Burton, Dennis R



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Qy 1438 ACTTTTCAATTAATCCATAACATGGCTCTTTGCCAACATCTCTCTATTGGCTATATG 1497
Db 11542 ACTTTTCAATTAATCCATAACATGGCTCTTTGCCAACATCTCTCTATTGGCTATATG 11483
Qy 1498 CCAATACCTCTCTCTCAGAGACTGACACGAGCTCTGTATTTTACAGAGTGGGTCCTCA 1557
Db 11482 CCAATACACTCTCTCTCAGAGACTGACACGAGCTCTGTATTTTACAGAGTGGGTCCTCA 11423
Qy 1558 TTTTATTATTTACAAATTCACATATACAAACACGCGCTCCCGTCCCGCAGTCTTTTATT 1617
Db 11422 TTTTATTATTTACAAATTCACATATACAAACACGCGCTCCCGTCCCGCAGTCTTTTATT 11363
Qy 1618 AAACATAGCTGGGATCTCCACGGGAATCTCGGGTACGTGTTCGGACATGGGCTCTTCT 1677
Db 11362 AAACATAGCTGGGATCTCCACGGGAATCTCGGGTACGTGTTCGGACATGGGCTCTTCT 11303
Qy 1678 CCGGTAGGGGGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGGT 1737
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Qy 1858 GAGATTGGGTCGACCG- TGACGAGATGGAAGACTTAAAGCGAGCGGCGGACAGAGATG 1916
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Qy 1917 CAGGAGCTGAGTTGTTCTGATTAAGAGTACAGAGTAACTCCCGTTCGGTGTCTGT 1976
Db 11062 CAGGAGCTGAGTTGTTCTGATTAAGAGTACAGAGTAACTCCCGTTCGGTGTCTGT 11003
Qy 1977 TAACTGGTGGAGGCGAGTGTCTGAGCAGTACTGTTGTCTGCGCGCGGCCACACAG 2036
Db 11002 TAACTGGTGGAGGCGAGTGTCTGAGCAGTACTGTTGTCTGCGCGCGGCCACACAG 10943
Qy 2037 ATAATAGCTGACAGACTAACAGACTGTTCTCTTTCATGGGCTTTCTGAGTCAAGT 2096
Db 10942 ATAATAGCTGACAGACTAACAGACTGTTCTCTTTCATGGGCTTTCTTCTGCACTC 10883
Qy 2097 CTTGACACGATG 2108
Db 10882 CTTGACACGATG 10871
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RESULT 9

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PCT-US95-08743-156
; Sequence 156 Application PC/TUS9508743
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES
; TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS
; NUMBER OF SEQUENCES: 170
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/08743
; FILING DATE: 11-JUL-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/276,852
; FILING DATE: 18-JUL-1994
; INFORMATION FOR SEQ ID NO: 156:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 13254 base pairs
; TYPE: nucleic acid
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; STRANDEDNESS: double
; TOPOLOGY: circular
; MOLECULE TYPE: DNA (genomic)
PCT-US95-08743-156
Query Match 91.58; Score 1986.4; DB 5; Length 13254;
Best Local Similarity 97.84; Pred. No. 0;
Matches 2066; Conservative 0; Mismatches 41; Indels 5; Gaps 5;
Qy 1 CTGCAGTGAATAATAAATGTGTGTTCCTCCGAAATACGCGTTCCTGAGATTCCTGTCGCC 60
Db 274 CTGCAGTGAATAATAAATGTGTGTTCCTCCGAAATACGCGTTCCTGAGATTCCTGTCGCC 333
Qy 61 GACTAAATTCATGTCGCGCATAGTGTGTTCATTCGCGCATAGAGATGGCGATATTCGAA 120
Db 334 GACTAAATTCATGTCGCGCATAGTGTGTTCATTCGCGCATAGAGATGGCGATATTCGAA 393
Qy 121 AAATCGATATTCGAAATATGGCATATTTGAAATGTCCGCGATGTGAGTTTCTGTGTAAC 180
Db 394 AAATCGATATTCGAAATATGGCATATTTGAAATGTCCGCGATGTGAGTTTCTGTGTAAC 453
Qy 181 TGATATCGCCATTTTCCAAAAGTGAATTTTGGGCATACGCGATATCTGGCGATACGGCT 240
Db 454 TGATATCGCCATTTTCCAAAAGTGAATTTTGGGCATACGCGATATCTGGCGATACGGCT 513
Qy 241 TATATCGTTTACGGGGGATGGCGATAGACGACTTTGGCGACTTGGCGGATTCCTGTGTCTC 300
Db 514 TATATCGTTTACGGGGGATGGCGATAGACGACTTTGGCGACTTGGCGGATTCCTGTGTCTC 573
Qy 301 GCAATATCCGAGTTCGATATAGTGCACAGACATATAGGCTATATCGCCGATAGAGG 360
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Qy 601 TAGCCCATATATGAGTTCGCGTTACATACTTACGGTAAATGGCCGCTCG-TGACC 659
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Db 1953 CCGTAGGGGGAGCTTCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGGT 2012  
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Qy 2097 CTTGACACGATG 2108  
Db 2373 CTTGACACGAAG 2384  
RESULT 10  
PCT-US95-08743-170/c  
; Sequence 170, Application PC/TUS9508743  
; GENERAL INFORMATION:  
; APPLICANT: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES  
; TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS  
; NUMBER OF SEQUENCES: 170  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (BPO)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US95/08743  
; FILING DATE: 11-JUL-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/276,852  
; FILING DATE: 18-JUL-1994  
; INFORMATION FOR SEQ ID NO: 170:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 13254 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: circular  
; MOLECULE TYPE: DNA (genomic)  
PCT-US95-08743-170

Query Match 91.5%; Score 1986.4; DB 5; Length 13254;  
Best Local Similarity 97.8%; Pred. No. 0;  
Matches 2066; Conservative 0; Mismatches 41; Indels 5; Gaps 5;  
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Qy 1678 CCGGTAGCGCGGAGCTTCCATATCCGAGCCCTGCTCCCATGCTCCAGCGACTCATGGT 1737  
Db 11302 CCGGTAGCGCGGAGCTTCTACATCCGAGCCCTGCTCCCATGCTCCAGCGACTCATGGT 11243  
Qy 1738 CGCTCGGAGCTCTTGTCTTAACTAGGTGGAGCCAGACTTAGGCACAGCAATGCCCCA 1797  
Db 11242 CGCTCGGAGCTCTTGTCTTAACTAGGTGGAGCCAGACTTAGGCACAGCAATGCCCCA 11183  
Qy 1798 CCACCAACGATGTGCCCAACAGCGCGTGGCGGTAGGGTATGTTCTGAAAAATGAGCTCG 1857  
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Qy 1977 TAAAGTGGAGGGCAGTGTAGTCTGACAGTACTCGTTGTCGCGCGCGCCACACAGAC 2036  
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Qy 2037 ATATAGCTGACAGCTAAACAGACTGTTCTTTCCATGGGTCTTTCTGCACTCACCGTC 2096  
Db 10942 ATATAGCTGACAGCTAAACAGACTGTTCTTTCCATGGGTCTTTCTGCACTCACCGTC 10883  
Qy 2097 CTTGACACAGATG 2108  
Db 10882 CTTGACACAGATG 10871

RESULT 11

US-09-173-053-8  
; Sequence 8, Application US/09173053  
; Patent No. 6451769  
; GENERAL INFORMATION:  
; APPLICANT: HUEBNER, Robert C.  
; APPLICANT: NORMAN, Jon A.  
; APPLICANT: LIANG, Xiaowu  
; APPLICANT: CAENER, Kristin R.  
; APPLICANT: BARBOUR, Alan G.  
; APPLICANT: LUKE, Catherine J.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ADMINISTERING BORRELIA DNA  
; FILE REFERENCE: 454312-2440.1  
; CURRENT APPLICATION NUMBER: US/09/173,053  
; CURRENT FILING DATE: 1998-10-15  
; PRIOR APPLICATION NUMBER: 08/663,998  
; PRIOR FILING DATE: 1996-06-14  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 8  
; LENGTH: 5215  
; TYPE: DNA  
; ORGANISM: Borrelia burgdorferi  
US-09-173-053-8

Query Match 74.7%; Score 1620.4; DB 4; Length 5215;  
Best Local Similarity 99.3%; Pred. No. 0;  
Matches 1638; Conservative 0; Mismatches 11; Indels 1; Gaps 1;  
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## RESULT 12

US-08-760-615-7  
; Sequence 7, Application US/08760615  
; Patent No. 620959  
; GENERAL INFORMATION:  
; APPLICANT: Haynes, Joel R  
; APPLICANT: Schmaljohn, Connie S  
; APPLICANT: Fuller, Deborah L  
; APPLICANT: Schmaljohn, Alan  
; TITLE OF INVENTION: GENETIC INDUCTION OF ANTI-VIRAL IMMUNE  
; TITLE OF INVENTION: RESPONSE AND GENETIC VACCINE FOR FILOVIRUS  
; NUMBER OF SEQUENCES: 17  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Quarles & Brady  
; STREET: 1 South Pinckney Street  
; CITY: Madison  
; STATE: WI  
; COUNTRY: US  
; ZIP: 53703  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/760,615  
; FILING DATE:  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Berson, Bennett J  
; REGISTRATION NUMBER: 37094  
; REFERENCE/DOCKET NUMBER: 110229.91241  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 608-251-5000  
; TELEFAX: 608-251-9166  
; INFORMATION FOR SEQ ID NO: 7:  
; SEQUENCE CHARACTERISTICS:

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; LENGTH: 4326 base pairs
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; STRANDEDNESS: double
; TOPOLOGY: circular
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "Expression vector
; DESCRIPTION: construct"
; IMMEDIATE SOURCE:
; CLONE: pMRG7077
; FEATURE:
; NAME/KEY: promoter
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; LOCATION: 2063..2887
; OTHER INFORMATION: /function= "Human Cytomegalovirus
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; FEATURE:
; NAME/KEY: polyA_site
; LOCATION: 2912..3314
; FEATURE:
; NAME/KEY: CDS
; LOCATION: complement (299..1114)
;
US-08-760-615-7

Query Match 73.5%; Score 1594.4; DB 3; Length 4326;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1639; Conservative 0; Mismatches 1; Indels 4; Gaps 4;

QY 457 CAATATTGGCTATTGGCCATTGCATACGTTGTATCTATATCATATATATGATATATAT 516
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DB 1315 TGGCTCATGTCAATATGACCGCCATGTTGACATGATTATTGACTAGTATTATATAGTA 1374
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; Sequence 1, Application US/08345913  
; Patent No. 5641665

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DB 2034 GAAACGGGATTCCCGCTGCCAAGAGTGAAGTAAAGTACCGCTCTATAGGCACA 2093
QY 1296 CCCCTTTGGCTCTTATGATGCTATCTACTGTTTTTGGCTTGGGGCCCTATACACCCCGC-T 1354
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QY 1535 TATTTTTACAGGATGGGGTCCCATTTTATTTTACAATTTACATATACAAACACGCGT 1594
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QY 1954 GGTAACTCCCGTTCGCGTGTGTTAAACGGTGGAGGCGAGTGTAGTCTGACGAGTACTCGT 2013
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Qy 1971 -TGCTGTTAAACGGTGGAGGACGAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGGCC 2029  
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Qy 2030 ACCAGACATAATAGCTGACAGACTAAACAGACTGTTCTCTTCCATGGGTCTTTTCTGCAGT 2089  
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Db 1621 CACCGTCTTGACACGATGGA 1641

RESULT 15  
US-09-628-445-1  
; Sequence 1, Application US/09628445  
; Patent No. 639588  
; GENERAL INFORMATION:  
; APPLICANT: Hobart, Peter M.  
; APPLICANT: Margalith, Michal  
; APPLICANT: Parker, Suzanne E.  
; APPLICANT: Khatibi, Shrin  
; TITLE OF INVENTION: Cancer Treatment Utilizing Plasmids Suitable for IL-2 Expression  
; FILE REFERENCE: 1530.0080002  
; CURRENT APPLICATION NUMBER: US/09/628,445  
; CURRENT FILING DATE: 2000-07-28  
; PRIOR FILING DATE: 1997-03-14  
; PRIOR APPLICATION NUMBER: US 08/818,562  
; PRIOR FILING DATE: 1994-11-28  
; NUMBER OF SEQ ID NOS: 3  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 4928  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1689)...(2159)  
US-09-628-445-1

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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

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Searched: 4093002 seqs, 2760418825 residues

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Listing first 45 summaries

Database : Published Applications NA:\*\*

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## SUMMARIES

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8	1718.4	79.2	1767	9	US-09-886-942-1
9	1702.4	78.5	1767	9	US-09-886-942-14
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16	1892.8	78.0	1767	9	US-09-886-942-8	Sequence 8, Appl
17	1691	77.9	1766	9	US-09-886-942-6	Sequence 6, Appl
18	1678.4	77.3	1765	9	US-09-886-942-13	Sequence 13, Appl
19	1648	75.9	4622	9	US-09-846-091-11	Sequence 11, Appl
20	1648	75.9	5089	10	US-09-993-307-2	Sequence 2, Appl
21	1648	75.9	5089	10	US-09-993-307-5	Sequence 5, Appl
22	1648	75.9	5488	10	US-09-993-307-3	Sequence 3, Appl
23	1648	75.9	5488	10	US-09-993-307-6	Sequence 6, Appl
24	1648	75.9	5500	10	US-09-993-307-1	Sequence 1, Appl
25	1648	75.9	5500	10	US-09-993-307-4	Sequence 4, Appl
26	1648	75.9	8001	9	US-09-491-974-3	Sequence 3, Appl
27	1648	75.9	8001	16	US-10-394-388A-3	Sequence 3, Appl
28	1846.4	75.9	6050	9	US-09-431-974-4	Sequence 4, Appl
29	1846.4	75.9	6050	16	US-10-394-388A-4	Sequence 4, Appl
30	1643.6	75.7	1757	9	US-09-886-942-17	Sequence 17, Appl
31	1636.2	75.4	1767	9	US-09-886-942-19	Sequence 19, Appl
32	1636	75.4	1758	9	US-09-886-942-2	Sequence 2, Appl
33	1635.6	75.4	1757	9	US-09-886-942-11	Sequence 11, Appl
34	1627	75.0	9918	9	US-09-788-675-5	Sequence 5, Appl
35	1627	75.0	9918	17	US-10-093-953A-5	Sequence 5, Appl
36	1620.6	74.7	1848	14	US-10-247-703-51	Sequence 51, Appl
37	1620.6	74.7	1848	18	US-10-781-142-32	Sequence 32, Appl
38	1595	73.5	1665	9	US-09-886-942-20	Sequence 20, Appl
39	1594.4	73.5	8911	16	US-10-612-192-3	Sequence 3, Appl
40	1594.4	73.5	13464	16	US-10-394-388A-9	Sequence 9, Appl
41	1592.8	73.4	3893	9	US-09-788-675-3	Sequence 3, Appl
42	1592.8	73.4	3893	17	US-10-093-953A-3	Sequence 3, Appl
43	1592.8	73.4	3893	17	US-10-093-953A-39	Sequence 39, Appl
44	1591.2	73.3	7807	16	US-10-394-388A-7	Sequence 7, Appl
45	1591.2	73.3	7813	16	US-10-394-388A-8	Sequence 8, Appl

## ALIGNMENTS

## RESULT 1

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US-10-247-703-50
; Sequence 50, Application US/10247703
; Publication No. US20030063597A1
; GENERAL INFORMATION:
; APPLICANT: Branigan, Patrick
; APPLICANT: Goletz, Theresa J
; APPLICANT: Knights, David M
; APPLICANT: McCarthy, Stephen G
; APPLICANT: Scallan, Bernard J
; APPLICANT: Snyder, Linda A
; TITLE OF INVENTION: CYCLIC ACID VACCINES
; FILE REFERENCE: GEN310
; CURRENT APPLICATION NUMBER: US/10/247,703
; CURRENT FILING DATE: 2002-09-20
; PRIOR APPLICATION NUMBER: 60/328,371
; PRIOR FILING DATE: 2001-10-10
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 50
; LENGTH: 2361
; TYPE: DNA
; ORGANISM: Human cytomegalovirus
US-10-247-703-50

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	Query Match	100.0%;	Score 2170;	DB 14;	Length 2361;
	Best Local Similarity	100.0%;	Pred. No. 0;		
	Matches 2170;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	CTCAGTGAATAAATAATGTGTGTTGTCGCGAAATACGCGTTTGTGAGATTTCTGTGCC	60		
Db	1	CTCAGTGAATAAATAATGTGTGTTGTCGCGAAATACGCGTTTGTGAGATTTCTGTGCC	60		
Qy	61	GACTAAATTCACTCGCGCGATAGTGTGTTTATCGCCGATAGAGATGCGGATATTCGAA	120		



Db 61 |||||GACTAAATTCATGTCGCGCGGATAGTGGTGTGTTTATCGCCGATAGAGATGGCGATATTGGAA 120  
Qy 121 AAATCGATATTGAAATATGCGATATTGAAATGTCGCGATGTCGAGATTCTGTGTAAC 180  
Db 121 AAATCGATATTGAAATATGCGATATTGAAATGTCGCGATGTCGAGATTCTGTGTAAC 180  
Qy 181 TGATATCGCCATTTTCCAAAAGTGATTTTGGGCATACGCGATATCTGGCGATACGGCT 240  
Db 181 TGATATCGCCATTTTCCAAAAGTGATTTTGGGCATACGCGATATCTGGCGATACGGCT 240  
Qy 241 TATATCGTTTACGGGGGATGCGGATAGACGATTTGGGACTTGGGCGATTCTGTGTGTC 300  
Db 241 TATATCGTTTACGGGGGATGCGGATAGACGATTTGGGACTTGGGCGATTCTGTGTGTC 300  
Qy 301 GCAAATATCGCAGTTTCCGATATAGTGACAGCATATGAGGCTATATCGCCGATAGAGG 360  
Db 301 GCAAATATCGCAGTTTCCGATATAGTGACAGCATATGAGGCTATATCGCCGATAGAGG 360  
Qy 361 CGACATCAAGCTGGCACATGCGCAATCGATATCGATCTATATGAAATCAATATTGGCA 420  
Db 361 CGACATCAAGCTGGCACATGCGCAATCGATCTATATGAAATCAATATTGGCA 420  
Qy 421 ATTAGCCATATAGTCATTTGTTATATAGCATATAATCAATATTGGCTATTGGCCATTGCA 480  
Db 421 ATTAGCCATATAGTCATTTGTTATATAGCATATAATCAATATTGGCTATTGGCCATTGCA 480  
Qy 481 TAGCTTGATCTATATCATATATGATCATTTTATGCTCATGTCCTCAATATGACCGCC 540  
Db 481 TAGCTTGATCTATATCATATATGATCATTTTATGCTCATGTCCTCAATATGACCGCC 540  
Qy 541 ATGTTGACATTTGATTTGACTAGTTAATAGTAATCAATTAAGGCTCAATAGTTCA 600  
Db 541 ATGTTGACATTTGATTTGACTAGTTAATAGTAATCAATTAAGGCTCAATAGTTCA 600  
Qy 601 TAGCCCATATATGAGTTCCGGTTACATACTTACGTAATGCGTAAATGGCCCGCTCGTGACG 660  
Db 601 TAGCCCATATATGAGTTCCGGTTACATACTTACGTAATGCGTAAATGGCCCGCTCGTGACG 660  
Qy 661 CCCAACGACCCCGGCCATGACGTCATATGACGTATGTTCCCATAGTAAGCCCAATA 720  
Db 661 CCCAACGACCCCGGCCATGACGTCATATGACGTATGTTCCCATAGTAAGCCCAATA 720  
Qy 721 GGGACTTTCCATTTGACGTCATATGCGTGAATTTTACCGTAAATGCGCCACTTGGCAGTA 780  
Db 721 GGGACTTTCCATTTGACGTCATATGCGTGAATTTTACCGTAAATGCGCCACTTGGCAGTA 780  
Qy 781 CATCAAGTGATCATATGCGAGTCCGCGCCCTTATGACGTCATATGACGTCATATGCGC 840  
Db 781 CATCAAGTGATCATATGCGAGTCCGCGCCCTTATGACGTCATATGACGTCATATGCGC 840  
Qy 841 CGCCTGGCATTTATGCCAGTACATGACCTTACGGGACTTTCCTACTTGGCAGTACATCTA 900  
Db 841 CGCCTGGCATTTATGCCAGTACATGACCTTACGGGACTTTCCTACTTGGCAGTACATCTA 900  
Qy 901 CGTATAGTCATCGCTATTACATCGGTGATGCGGTTTGGCGATACCAATGGCGTGG 960  
Db 901 CGTATAGTCATCGCTATTACATCGGTGATGCGGTTTGGCGATACCAATGGCGTGG 960  
Qy 961 ATAGCGGTTTGACTCACGGGATTTCCAAAGTCTCCACCCATTTGACGTCATTTGGAGTTT 1020  
Db 961 ATAGCGGTTTGACTCACGGGATTTCCAAAGTCTCCACCCATTTGACGTCATTTGGAGTTT 1020  
Qy 1021 GTTTTGGCACCAAAATCAACGGGACTTTCCAAATGTCGTAAATACCCCGCCCGCTTGAC 1080  
Db 1021 GTTTTGGCACCAAAATCAACGGGACTTTCCAAATGTCGTAAATACCCCGCCCGCTTGAC 1080  
Qy 1081 GCAATATGGCGGTAGGCGGTATACGTTGGAGGTCTATATAGCAGAGCTCGTTTATGTA 1140  
Db 1081 GCAATATGGCGGTAGGCGGTATACGTTGGAGGTCTATATAGCAGAGCTCGTTTATGTA 1140  
Qy 1141 CCGTCAGATCGCCTGAGACGCGCATCCACGCTGTTTGTGACCTCCCATAGAAACACCGGA 1200

RESULT 2  
US-09-765-400-64/c

Db 1141 CCGTCAGATCGCCTGGAGACGCCATCCACGCTGTTTGTGACCTCCATAGAAAGACACCGGA 1200  
Qy 1201 CCGATCCAGCCTCCGCGCGGAAACGGTGCAATGGAAACGCGATATCCCGTGCAGAGAG 1260  
Db 1201 CCGATCCAGCCTCCGCGCGGAAACGGTGCAATGGAAACGCGATATCCCGTGCAGAGAG 1260  
Qy 1261 TGACGTAAGTACCGCCTATAGACTCTATAGGACACCCCTTGGCTCTTATGATGCTAT 1320  
Db 1261 TGACGTAAGTACCGCCTATAGACTCTCTATAGGACACCCCTTGGCTCTTATGATGCTAT 1320  
Qy 1321 ACTGTTTTGGCTTGGGGCTATACACCCCGCTCTCTATAGCTATAGGTGATGATAGC 1380  
Db 1321 ACTGTTTTGGCTTGGGGCTATACACCCCGCTCTCTATAGCTATAGGTGATGATAGC 1380  
Qy 1381 TTAGCCTATAGGTGGGTTATTGACCAATTTGACCACTCCCTATTTGGTGACGATCT 1440  
Db 1381 TTAGCCTATAGGTGGGTTATTGACCAATTTGACCACTCCCTATTTGGTGACGATCT 1440  
Qy 1441 TTCCATTTACTAATCCATAACATGCTCTTTGGCCACCACTATCTATTTGGCTATATGCCA 1500  
Db 1441 TTCCATTTACTAATCCATAACATGCTCTTTGGCCACCACTATCTATTTGGCTATATGCCA 1500  
Qy 1501 ATACTCTGCTCTTACAGAGACTGACACGACTCTGTATTTTACAGGATGGGGTCCCATTT 1560  
Db 1501 ATACTCTGCTCTTACAGAGACTGACACGACTCTGTATTTTACAGGATGGGGTCCCATTT 1560  
Qy 1561 ATTATTTACAAATTCACATATACAAACGCGCTCCCGTGGCCGAGTTTTTATTTAAA 1620  
Db 1561 ATTATTTACAAATTCACATATACAAACGCGCTCCCGTGGCCGAGTTTTTATTTAAA 1620  
Qy 1621 CATAGCTGGGATCTCCACGGAATCTCGGGTACGTTCCGGACATGGGCTCTTCTCCG 1680  
Db 1621 CATAGCTGGGATCTCCACGGAATCTCGGGTACGTTCCGGACATGGGCTCTTCTCCG 1680  
Qy 1681 GTAGCGCGGAGCTTCCACATCCGAGCCTGGTCCCATGCTCCAGCGGCTCATGGTCCG 1740  
Db 1681 GTAGCGCGGAGCTTCCACATCCGAGCCTGGTCCCATGCTCCAGCGGCTCATGGTCCG 1740  
Qy 1741 TCGGCAGCTCTTGTCTCTTAAAGTGAGGCGAGACTTAGGCAAGAGATGCGAG 1800  
Db 1741 TCGGCAGCTCTTGTCTCTTAAAGTGAGGCGAGACTTAGGCAAGAGATGCGAG 1800  
Qy 1801 CCACAGTGTCGCGACCAAGCGCTGAGGATGATGTCGTAAGATGAGCTCGGAG 1860  
Db 1801 CCACAGTGTCGCGACCAAGCGCTGAGGATGATGTCGTAAGATGAGCTCGGAG 1860  
Qy 1861 ATTGGGCTCGCACCGTGAACGAGATGGAAGACTTTAAGGCGCGGAGAGAGATGCGAG 1920  
Db 1861 ATTGGGCTCGCACCGTGAACGAGATGGAAGACTTTAAGGCGCGGAGAGAGATGCGAG 1920  
Qy 1921 CAGCTGAGTTGTTGTTATTTGATTAAGATCAGAGTAACTCCCGTGGGTCGTTTAAAC 1980  
Db 1921 CAGCTGAGTTGTTGTTATTTGATTAAGATCAGAGTAACTCCCGTGGGTCGTTTAAAC 1980  
Qy 1981 GGTGAGGCGAGTGTAGTCTGAGCAGTACTGTTGCTGCGCGCGCGCACACAGACATAA 2040  
Db 1981 GGTGAGGCGAGTGTAGTCTGAGCAGTACTGTTGCTGCGCGCGCGCACACAGACATAA 2040  
Qy 2041 TAGCTGACAGACTAACAGACTGTTTCCCTTCCATGGGCTTTTCTGCACTCACCGTCTTG 2100  
Db 2041 TAGCTGACAGACTAACAGACTGTTTCCCTTCCATGGGCTTTTCTGCACTCACCGTCTTG 2100  
Qy 2101 ACACGATGGAGTCTCTGCGAAGAGAAAGATGGAACCTGATTAATCCTGACGAGGGCCCTT 2160  
Db 2101 ACACGATGGAGTCTCTGCGAAGAGAAAGATGGAACCTGATTAATCCTGACGAGGGCCCTT 2160  
Qy 2161 CCTCCAGGT 2170  
Db 2161 CCTCCAGGT 2170



; Sequence 64, Application US/09765400  
; Publication No. US20010009109A1  
; GENERAL INFORMATION:  
; APPLICANT: Ghazal, Peter  
; APPLICANT: Huang, Huang  
; TITLE OF INVENTION: Generation of Human Cytomegalovirus Yeast Artificial Chromosome  
; TITLE OF INVENTION: Recombinants  
; FILE REFERENCE: 98,299  
; CURRENT APPLICATION NUMBER: US/09/765,400  
; CURRENT FILING DATE: 2000-11-03  
; NUMBER OF SEQ ID NOS: 64  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 64  
; LENGTH: 229354  
; TYPE: DNA  
; ORGANISM: Human cytomegalovirus;  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Human cytomegalovirus strain AD169 (GenBank X17403.1)  
US-09-765-400-64

Query Match 94.5%; Score 2050; DB 9; Length 229354;  
Best Local Similarity 97.9%; Pred. No. 0;  
Matches 2129; Conservative 0; Mismatches 40; Indels 5; Gaps 5;

QY	1	CTGCAGTGAATAAATAATGTTGTTGTCGGAATACGGGTTTGGAGATTCTGTGCGC 60
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QY	61	GACTAAATTCATGTCGCGCATAGTGTGTTATTCGCGGATAGAGATGGCGATATTGGAA 120
DB	174813	GACTAAATTCATGTCGCGCATAGTGTGTTATTCGCGGATAGAGATGGCGATATTGGAA 174754
QY	121	AAATCGATATTGAAATATGGCATATTGAAATATGTCGCGCATAGTGTGTTCTGTGTAAC 180
DB	174753	AAATCGATATTGAAATATGGCATATTGAAATATGTCGCGCATAGTGTGTTCTGTGTAAC 174694
QY	181	TGATATCGCCATTTTCCAAAAGTATTTTGGCGATACGGGATATCTGGCGATACGGCT 240
DB	174693	TGATATCGCCATTTTCCAAAAGTATTTTGGCGATACGGGATATCTGGCGATACGGCT 174634
QY	241	TATATCGTTTACGGGGATGGCGATAGACGACTTTGGCGACTTTGGCGGATTTCTGTGTGTC 300
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QY	301	GCAAAATTCGAGTTTCGATATAGGTGACAGACGATATAGGCTATATCGCCGATAGAG 360
DB	174573	GCAAAATTCGAGTTTCGATATAGGTGACAGACGATATAGGCTATATCGCCGATAGAG 174514
QY	361	CGACATCAAGTGGCACAATGGCCAAATGCATATCGATCTATCAATGAATCAATATTGGCA 420
DB	174513	CGACATCAAGTGGCACAATGGCCAAATGCATATCGATCTATCAATGAATCAATATTGGCC 174454
QY	421	ATTAGCCATATTAGTCATTTGTTATATAGCAATAATCAATATTGGCTATTGGCCATTGCA 480
DB	174453	ATTAGCCATATTAGTCATTTGTTATATAGCAATAATCAATATTGGCTATTGGCCATTGCA 174394
QY	481	TACGTTGATCTATATCAATATGTACATTATATTGGCTCATGTCCAATATGACCGCC 540
DB	174393	TACGTTGATCTATATCAATATGTACATTATATTGGCTCATGTCCAATATGACCGCC 174334
QY	541	ATGTTGACATTGATTAGTATTTAATAGTAATCAATATTACGGTAAATGGCCCGCTCG -TGACC 600
DB	174333	ATGTTGACATTGATTAGTATTTAATAGTAATCAATATTACGGTAAATGGCCCGCTCG -TGACC 174274
QY	601	TAGCCCATATATGAGTTTCGCGTTTACATACTTACCGTAAATGGCCCGCTCG -TGACC 659
DB	174273	TAGCCCATATATGAGTTTCGCGTTTACATACTTACCGTAAATGGCCCGCTCGCTGACC 174214
QY	660	GCCCAACGACCCCGCCCATTTGAGCTCAATTAATGACGTATGTTCCCATAGTAACGCCAAT 719
DB	174213	GCCCAACGACCCCGCCCATTTGAGCTCAATTAATGACGTATGTTCCCATAGTAACGCCAAT 174154

QY	720	AGGAGCTTTCCATTGACGTCAATGGGTGGAGTATTTACGTTAAACTGCCACATTGGCAGT 779
DB	174153	AGGAGCTTTCCATTGACGTCAATGGGTGGAGTATTTACGTTAAACTGCCACATTGGCAGT 174094
QY	780	ACATCAAGTGTATCATATGCAAGTCCGCGCCCTATTGACGTCATTAAGCGTAAATGGC 839
DB	174093	ACATCAAGTGTATCATATGCAAGTCCGCGCCCTATTGACGTCATTAAGCGTAAATGGC 174035
QY	840	CCGCTGGCAATATGCGCCAGTACATGACCTTACGGGACTTTCTTCTTACCTTGGCAGTACATCT 899
DB	174034	CCGCTGGCAATATGCGCCAGTACATGACCTTATGGGACTTTCTTCTTACCTTGGCAGTACATCT 173975
QY	900	ACGTATTAGTCATCGCTATTACCATGCTGATGCGGTTTTCGTCAGTACCAATGGCGGTG 959
DB	173974	ACGTATTAGTCATCGCTATTACCATGCTGATGCGGTTTTCGTCAGTACCAATGGCGGTG 173915
QY	960	GATAGCGGTTTGACTCACGGGGATTTCCAAAGTCTCCACCCATTGACGTCATGGGAGTT 1019
DB	173914	GATAGCGGTTTGACTCACGGGGATTTCCAAAGTCTCCACCCATTGACGTCATGGGAGTT 173855
QY	1020	TGTTTGGCACCAAAATCAAACGGGACTTTTCCAAAATGTCGTAAATAACCCGCCCGTTGA 1079
DB	173854	TGTTTGGCACCAAAATCAAACGGGACTTTTCCAAAATGTCGTAAATAACCCGCCCGTTGA 173795
QY	1080	CGCAAAATGGGCGGTAGCGGTGACGTTGGGAGGCTTATATAAGCAGAGCTCGTTTAGTGA 1139
DB	173794	CGCAAAATGGGCGGTAGCGGTGACGTTGGGAGGCTTATATAAGCAGAGCTCGTTTAGTGA 173735
QY	1140	ACCGTCAGATCGCTCGGAGACGCCATCCACGCTGTTTGGACCTCCATAGAGACACACGGG 1199
DB	173734	ACCGTCAGATCGCTCGGAGACGCCATCCACGCTGTTTGGACCTCCATAGAGACACACGGG 173675
QY	1200	ACCGATCCAGCCTTCGCGGCGCGGAAACGGTGCAATTGGAACCGGGAATTCGCCGTCGAAGA 1259
DB	173674	ACCGATCCAGCCTTCGCGGCGCGGAAACGGTGCAATTGGAACCGGGAATTCGCCGTCGAAGA 173615
QY	1260	GTGACGTAGTACGCGCTATAGACTCTATAGGACACACCCCTTTGGC -TCATTATGTCATGCT 1318
DB	173614	GTGACGTAGTACGCGCTATAGACTCTATAGGACACACCCCTTTGGCCTTTATGTCATGCT 173555
QY	1319	ATACTGTTTTGGCTTTGGGCTTATACACCCCGC -TCCTTATGCTATAGGTATGTTAT 1377
DB	173554	ATACTGTTTTGGCTTTGGGCTTATACACCCCGCTTCTCTCATGTTATAGGTATGTTAT 173495
QY	1378	AGCTTAGCCTATAGGTGTTGTTATTGACCAATTATTGACCACTCCCTCATTTGGTGAAGAT 1437
DB	173494	AGCTTAGCCTATAGGTGTTGTTATTGACCAATTATTGACCACTCCCTCATTTGGTGAAGAT 173435
QY	1438	ACTTTCATTTACTAATCCATAACATGGCTCTTTGGCACAACACTATCTCTATTGGCTATATG 1497
DB	173434	ACTTTCATTTACTAATCCATAACATGGCTCTTTGGCACAACACTATCTCTATTGGCTATATG 173375
QY	1498	CCAATCTCTGCTTCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGGTCCCA 1557
DB	173374	CCAATCTCTGCTTCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGGTCCCA 173315
QY	1558	TTTATTATTACAAATTCACATATACAAACCGCTCCCGCTCCCGGCGGAGTTTATT 1617
DB	173314	TTTATTATTACAAATTCACATATACAAACCGCTCCCGCTCCCGGCGGAGTTTATT 173255
QY	1618	AAACATAGTGGGATCTCCACGGATCTCGGGTAGCTTCCGGACATGGGCTCTTCT 1677
DB	173254	AAACATAGTGGGATCTCCACGGATCTCGGGTAGCTTCCGGACATGGGCTCTTCT 173195
QY	1678	CCGTAGCGCGGAGCTTCCACATCCGAGCCTTGGTCCCATGCTCCAGGGGCTCATGGT 1737
DB	173194	CCGTAGCGCGGAGCTTCTACATCCGAGCCTTGGTCCCATGCTCCAGGGGCTCATGGT 173135
QY	1738	CGCTCGGAGCTCTTGTCTCTTAAAGTGGAGCCAGATTAGGCAACAGCAATGCCA 1797
DB	173134	CGCTCGGAGCTCTTGTCTCTTAAAGTGGAGCCAGATTAGGCAACAGCAATGCCA 173075
QY	1798	CCACCACGAGTGTGCCGCAACAGGCCGTGGGGTAGGGTATGTCTCTGAAATAGGCTCG 1857



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Qy 1200 ACCGATCCAGCTCCGCGCGGGAACGGTGCATTGGAAACCGGATTCCTCGTGCCCAAGA 1259
Db 1473 ACCGATCCAGCTCCGCGCGGGAACGGTGCATTGGAAACCGGATTCCTCGTGCCCAAGA 1532
Qy 1260 GTGACGTAAGTACCGCTATAGACTCTATAGGCACACCCCTTTGGC-TCTTATCATGCT 1318
Db 1533 GTGACGTAAGTACCGCTATAGACTCTATAGGCACACCCCTTTGGC-TCTTATCATGCT 1592
Qy 1319 ATACTGTTTTGGCTTGGGGCTATACACCCCGC-TCTTATCATAGGTATGATGAT 1377
Db 1593 ATACTGTTTTGGCTTGGGGCTATACACCCCGCTTCTCATGTATAGGTATGATGAT 1652
Qy 1378 AGCTTAGCTATAGGTGCGGTATTCACCAATTTAGCACTCCCTATTGGTGACGAT 1437
Db 1653 AGCTTAGCTATAGGTGCGGTATTCACCAATTTAGCACTCCCTATTGGTGACGAT 1712
Qy 1438 ACTTTCATTAATCAATCAATCAATGCTCTTTGCCCAACTATCTCTATTGGCTATG 1497
Db 1713 ACTTTCATTAATCAATCAATCAATGCTCTTTGCCCAACTATCTCTATTGGCTATG 1772
Qy 1498 CCAATACTCTGCTCTCAGAGACTGACACGAGCTCTGTATTTTACAGGATGGGGTCCCA 1557
Db 1773 CCAATACTCTGCTCTCAGAGACTGACACGAGCTCTGTATTTTACAGGATGGGGTCTCA 1832
Qy 1558 TTTATTTTACAAATTCACATATACAAACGCGCTCCCGGTGCCGCAAGTTTTATT 1617
Db 1833 TTTATTTTACAAATTCACATATACAAACGCGCTCCCGGTGCCGCAAGTTTTATT 1892
Qy 1618 AAACATAGCTGGGATCTCCACGGAATCTCGGTAGTGTTCGGGACATGGGCTCTTCT 1677
Db 1893 AAACATAGCTGGGATCTCCACGGAATCTCGGTAGTGTTCGGGACATGGGCTCTTCT 1952
Qy 1678 CCGTAGCGGGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGGT 1737
Db 1953 CCGTAGCGGGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGGT 2012
Qy 1738 CGCTCGGAGCTCTTGTCTCTAAGTGGAGGCGAGCTTAGGCACAGCAATGCCCA 1797
Db 2013 CGCTCGGAGCTCTTGTCTCTAAGTGGAGGCGAGCTTAGGCACAGCAATGCCCA 2072
Qy 1798 CCACACAGCTGTCGCCCAAGGCGCTGGCGGTAGGATGTCTCTGAAATGAGCTCG 1857
Db 2073 CCACACAGCTGTCGCCCAAGGCGCTGGCGGTAGGATGTCTCTGAAATGAGCTCG 2132
Qy 1858 GAGATTGGGCTCGCACCG-TGACGCGAGATGGAAGCTTTAAGCGAGCGGCGAGCAAGATG 1916
Db 2133 GGGAGCGGCTTGACCGCTGACGCAATTTGGAAGCTTTAAGCGAGCGGCGAGCAAGATG 2192
Qy 1917 CAGCAGCTGAGTTGTTGTTATCTGATAAGAGTCAAGGTAATCTCCGTTGCGGTGCTGT 1976
Db 2193 CAGCAGCTGAGTTGTTGTTATCTGATAAGAGTCAAGGTAATCTCCGTTGCGGTGCTGT 2252
Qy 1977 TAACGTTGGAGGCGAGTGTAGTCTGACGCTACTGTTGCTCGCGCGCGGCCACAGAC 2036
Db 2253 TAACGTTGGAGGCGAGTGTAGTCTGACGCTACTGTTGCTCGCGCGCGGCCACAGAC 2312
Qy 2037 ATATAGCTGACAGCTAAACAGACTGTTCTTTTCCATGGGCTTTTCTGCACTCACCGTC 2096
Db 2313 ATATAGCTGACAGCTAAACAGACTGTTCTTTTCCATGGGCTTTTCTGCACTCACCGTC 2372
Qy 2097 CTTGACACGATG 2108
Db 2373 CTTGACACGAAG 2384
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## RESULT 4

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US-10-016-986-170/c
; Sequence 170, Application US/10016986
; Publication No. US20030187247A1
; GENERAL INFORMATION:
; APPLICANT: Burton, Dennis R
; APPLICANT: Barbas, Carlos F
```

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; APPLICANT: Lerner, Richard A
; TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES
; FILE REFERENCE: 313.2CON1
; CURRENT APPLICATION NUMBER: US/10/016.986
; CURRENT FILING DATE: 2001-12-12
; PRIOR FILING DATE: 1998-09-08 US 09/149,898
; PRIOR APPLICATION NUMBER: US 08/899,575
; PRIOR FILING DATE: 1997-07-24
; PRIOR APPLICATION NUMBER: US 08/276,852
; PRIOR FILING DATE: 1994-07-18
; PRIOR APPLICATION NUMBER: US 08/178,302
; PRIOR FILING DATE: 1994-01-06
; PRIOR APPLICATION NUMBER: PCT/US93/09328
; PRIOR FILING DATE: 1993-09-30
; PRIOR APPLICATION NUMBER: US 07/954,148
; PRIOR FILING DATE: 1992-09-30
; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 170
; LENGTH: 13254
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthesized
US-10-016-986-170
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Query Match 91.5%; Score 1986.4; DB 15; Length 13254;
Best Local Similarity 97.8%; Pred. No. 0;
Matches 2066; Conservative 0; Mismatches 41; Indels 5; Gaps 5;

Qy 1 CTCAGTGAATAATAAATGTGTTTGTCCGAAATACGCGTTTGTAGATTCTGTGCGCC 60
Db 12981 CTCAGTGAATAATAAATGTGTTTGTCCGAAATACGCGTTTGTAGATTCTGTGCGCC 12922
Qy 61 GACTAAATTCATGTCGCGGATAGTGTGTTTATCCGCGATAGAGATGGCGATTTGGAA 120
Db 12921 GACTAAATTCATGTCGCGGATAGTGTGTTTATCCGCGATAGAGATGGCGATTTGGAA 12862
Qy 121 AAATCGATATTGAAATATGGCATATTGAAATGTCCCGATGTGAGTTTCTGTGAAC 180
Db 12861 AAATCGATATTGAAATATGGCATATTGAAATGTCCCGATGTGAGTTTCTGTGAAC 12802
Qy 181 TGATATCGCAATTTTCCAAAGTGAATTTTGGGCATACGCGATATCTGGCGATACGCGT 240
Db 12801 TGATATCGCAATTTTCCAAAGTGAATTTTGGGCATACGCGATATCTGGCGATACGCGT 12742
Qy 241 TATATCGTTTACGGGGATGCGGATAGACGACTTTGGCGACTTTGGCGATTTCTGTGTC 300
Db 12741 TATATCGTTTACGGGGATGCGGATAGACGACTTTGGCGACTTTCTGTGTGTC 12682
Qy 301 GCAATATCGCAGTTTCGATATAGGTGCACAGCATATAGGCTATATCGCCGATAGAGG 360
Db 12681 GCAATATCGCAGTTTCGATATAGGTGCACAGCATATAGGCTATATCGCCGATAGAGG 12622
Qy 361 CGACATCAAGCTGGCAGATCGCAATGCATATCGATCTATACATTTGAATCAATATTGGCA 420
Db 12621 CGACATCAAGCTGGCAGATCGCAATGCATATCGATCTATACATTTGAATCAATATTGGCC 12562
Qy 421 ATTAGCATATTAGTCAATGTTTATATAGCATAAATCAATATTGGCTATTGGCCATTGCA 480
Db 12561 ATTAGCATATTATTCATTGTTTATATAGCATAAATCAATATTGGCTATTGGCCATTGCA 12502
Qy 481 TAGCTTGTATCTATATCAATATATGATTTATTTGGCTCATGTCCAATATCACCGCC 540
Db 12501 TAGCTTGTATCTATATCAATATATGATTTATTTGGCTCATGTCCAATATCACCGCC 12442
Qy 541 ATGTTGACATTGATTTATGACTAGTTTAAATAGTAATCAATACGGGGTCAATTAGTTCA 600
Db 12441 ATGTTGACATTGATTTATGACTAGTTTAAATAGTAATCAATACGGGGTCAATTAGTTCA 12382
Qy 601 TAGCCCATATATGAGAGTTCCGGTTCATTAATACCTACCGTAAATGCCCGCCTCG-TGACC 659
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Db 12381 TAGCCATATATGAGTTCCGCGTTACATACTTACGGTAAATGGCCCGCGCTGACC 12322  
Qy 660 GCCCAAGACCCCGCCATTGAGCTCAATAATGACGTATGTTCCCATAGTAACGCCAAT 719  
Db 12321 GCCCAAGACCCCGCCATTGAGCTCAATAATGACGTATGTTCCCATAGTAACGCCAAT 12262  
Qy 720 AGGACATTTCCATTTGAGCTCAATGGGTGGAGTATTTACGGTAAACTGCCACATTTGGCAGT 779  
Db 12261 AGGACATTTCCATTTGAGCTCAATGGGTGGAGTATTTACGGTAAACTGCCACATTTGGCAGT 12202  
Qy 780 ACATCAAGTATCATATGCAAGTCCGCGCCCTTATGAGCTCAATGA CGTAAATGGC 839  
Db 12201 ACATCAAGTATCATATGCAAGTAC - GCCCCCTTATTTGAGCTCAATGA CGTAAATGGC 12143  
Qy 840 CCGCTCGCATATGCCCCAGTACATGACCTTACCGGACTTTCCCTACTTTGGCAGTACATCT 899  
Db 12142 CCGCTCGCATATGCCCCAGTACATGACCTTATGGGACTTTCCCTACTTTGGCAGTACATCT 12083  
Qy 900 ACGTATTAGTCAATCGCTATTACCATGGTGTGTCGGTATTTGGCAGTACACCAATGGGGTG 959  
Db 12082 ACGTATTAGTCAATCGCTATTACCATGGTGTGTCGGTATTTGGCAGTACATCAATGGGGTG 12023  
Qy 960 GATAGCGTTTGAATCAGCGGGATTTCCAGTCTCCACCCCATTTGAGCTCAATGGGAGTT 1019  
Db 12022 GATAGCGTTTGAATCAGCGGGATTTCCAGTCTCCACCCCATTTGAGCTCAATGGGAGTT 11963  
Qy 1020 TGTTTTGGCCAAATCAACGGGACTTTCCAAATGTCGTAATAACCCCGCCCGTTGA 1079  
Db 11962 TGTTTTGGCCAAATCAACGGGACTTTCCAAATGTCGTAATAACCCCGCCCGTTGA 11903  
Qy 1080 CGCAATAGGGCGGTAGCGTGTGAGTGGAGTCTATATAAGCAGAGCTCGTTTAGTGA 1139  
Db 11902 CGCAATAGGGCGGTAGCGTGTGAGTGGAGTCTATATAAGCAGAGCTCGTTTAGTGA 11843  
Qy 1140 ACCGTAGATCGCTCGGAGAGCCCATCCAGCTGTTTGTGACTCTCATAGAAAGACACCGGG 1199  
Db 11842 ACCGTAGATCGCTCGGAGAGCCCATCCAGCTGTTTGTGACTCTCATAGAAAGACACCGGG 11783  
Qy 1200 ACCGATCCAGCTCGCGCGCGGAGAGCGTGCATTTGGACCGGATTTCCCGTCCCAAGA 1259  
Db 11782 ACCGATCCAGCTCGCGCGCGGAGAGCGTGCATTTGGACCGGATTTCCCGTCCCAAGA 11723  
Qy 1260 GTGACGTAAGTACCGCTTATAGATCTATAGGCGACACCCCTTTGGC - TCTTATGATGCT 1318  
Db 11722 GTGACGTAAGTACCGCTTATAGATCTATAGGCGACACCCCTTTGGCTTCTTATGATGCT 11663  
Qy 1319 ATACTGTTTTTGGCTTGGGGCTATACACCCCGG - TCCCTTATGATAGTGTAT 1377  
Db 11662 ATACTGTTTTTGGCTTGGGGCTATACACCCCGGCTTCCCTCATGTTATAGTGTAT 11603  
Qy 1378 AGCTTAGCTATAGTGTGGGTATTGACCATTTAGACCACTCCCTATTGGTGACGAT 1437  
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Qy 1498 CCAATACTCTGTCTTACAGACTGACACGACTCTGTATTTTTTACAGGATGGGGTCCCA 1557  
Db 11482 CCAATACTCTGTCTTACAGACTGACACGACTCTGTATTTTTTACAGGATGGGGTCTCA 11423  
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Db 11242 CGCTCGGACAGCTCTTCTCTCTTAAACAGTGGAGGCCAGACTTAGGCACAGCAGATGCCCA 11183  
Qy 1798 CACACCAAGTGTGCCGCAACAAGCCGCTGGCGGTAGGATATGTTCTGAAAAATGAGCTCG 1857  
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Qy 1917 CAGGACAGTGAATTTGTTGTTATTTCTGATAAGAGTCAGAGGTAACCTCCCGTTGCGGTGCTGT 1976  
Db 11062 CAGGACAGTGAATTTGTTGTTGTTCTGATAAGAGTCAGAGGTAACCTCCCGTTGCGGTGCTGT 11003  
Qy 1977 TAACGGTGGAGGGCAGTGTAGTCTGAGCAGTACTCGTTGTCGCGCGCGGCCACCCAGAC 2036  
Db 11002 TAACGGTGGAGGGCAGTGTAGTCTGAGCAGTACTCGTTGTCGCGCGCGGCCACCCAGAC 10943  
Qy 2037 ATAATAGCTGACAGACTAAACAGACTGTTCCCTTCCATGGGTCTTTTCTGCAAGTCACCGTC 2096  
Db 10942 ATAATAGCTGACAGACTAAACAGACTGTTCCCTTCCATGGGTCTTTTCTGCAAGTCACCGTC 10883  
Qy 2097 CTTGACACCGATG 2108  
Db 10882 CTTGACACCGAAG 10871

RESULT 5  
US-10-239-804-6  
; Sequence 6, Application US/10239804  
; Publication No. US20030053991A1  
; GENERAL INFORMATION:  
; APPLICANT: Oxford Biomedica (UK) Limited  
; APPLICANT: Kingsman, Alan J  
; APPLICANT: Maden, Malcolm  
; APPLICANT: Corcoran, Jonathan PT  
; TITLE OF INVENTION: Factor  
; FILE REFERENCE: P009156W0C7H  
; CURRENT APPLICATION NUMBER: US/10/239,804  
; CURRENT FILING DATE: 2002-09-23  
; PRIOR APPLICATION NUMBER: PCT/GB00/01211  
; PRIOR FILING DATE: 2000-03-30  
; PRIOR APPLICATION NUMBER: GB 0024300.6  
; PRIOR FILING DATE: 2000-10-04  
; NUMBER OF SEQ ID NOS: 73  
; SOFTWARE: Patent In Ver. 2.1  
; SEQ ID NO 6  
; LENGTH: 6845  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: prV67, VSV-G  
; OTHER INFORMATION: expression plasmid  
US-10-239-804-6

Query Match 87.5%; Score 1897.8; DB 14; Length 6845;  
Best Local Similarity 96.8%; Pred. No. 0;  
Matches 2050; Conservative 11; Mismatches 43; Indels 13; Gaps 12;  
Qy 1 CTGCAGTGAATAATAAATGTTGTTGTCGAAATACGCGCTTTTGAGATTTCTGTCGCC 60  
Db 3005 CTGCAGTGAATAATAAATGTTGTTGTCGAAATACGCGCTTTTGAGATTTCTGTCGCC 3064  
Qy 61 GACTAAATTCATGTCGCGCGATAGTGGTGTATTCGCGCATAGAGATGGCGATATTGAA 120  
Db 3065 GACTAAATTCATGTCGCGCGATAGTGGTGTATTCGCGCATAGAGATGGCGATATTGAA 3124  
Qy 121 AAATCGATTTTGAATATGCGCATATTGAAATGTCGCCGATGTGAGTTCTCTGTGTAAC 180

Db 3125 AAATCGATATTGAAATATGGCATATTGAAATGTGCGCGATGTGAGTTTCTGTGTAAC 3184  
Qy 181 TGATATGCCATTTTTCAAAAG-TGATTTTGGGATACGCGATATCTGGCGATACGGC 239  
Db 3185 TGATATGCCATTTTTCAAAAGTTGATTTTGGGATACGCGATATCTGGCGATAC-GC 3243  
Qy 240 TTATATCGTTTACGGGGATGGCGATAGACGACTTTTCGGGACATTTGGGCGATCTGTGTGT 299  
Db 3244 TTATATCGTTTACGGGGATGGCGATAGACGCTTTTGGTGTGACTTTGGGCGATCTGTGTGT 3303  
Qy 300 CGCAAAATATCGCAGTTTCGATATAGGTGACAGAGATATGAGGCTATATCGCCGATAGAG 359  
Db 3304 CGCAAAATATCGCAGTTTCGATATAGGTGACAGAGATATGAGGCTATATCGCCGATAGAG 3363  
Qy 360 CGGACATCAAGCTGGGACATGGCCAAATGCATATCGATCTATACATTTGAATCAATATTGGC 419  
Db 3364 CGGACATCAAGCTGGGACATGGCCAAATGCATATCGATCTATACATTTGAATCAATATTGGC 3423  
Qy 420 AATTAGCCATATTAGTCAATTGGTTATATAGCATAAATCAATATTGGCTATTGGCCATTGC 479  
Db 3424 CAITAGCCATATTATTCAITGGTTATATAGCATAAATCAATATTGGCTATTGGCCATTGC 3483  
Qy 480 ATAGCTTGTATCTATATCAATAATATGATCAATTTATATTGGCTCATGTCCCAATATGACCGC 539  
Db 3484 ATAGCTTGTATCCATATCAATATATGATCAATTTATATTGGCTCATGTCCCAATATGACCGC 3543  
Qy 540 CATGTTGACATGATTAATGACTAGTTAATTAATAGTAATCAATTAACGGGGTCATATTGTC 599  
Db 3544 CATGTTGACATGATTAATGACTAGTTAATTAATAGTAATCAATTAACGGGGTCATATTGTC 3603  
Qy 600 ATAGCCCATATATGGAGTTCGGGTTACATAACTTACGGTAATGGCCGCGCTCG-TGAC 658  
Db 3604 ATAGCCCATATATGGAGTTCGGGTTACATAACTTACGGTAATGGCCGCGCTCGGCTGAC 3663  
Qy 659 CGCCCAACGACCCCGCCCATTTGACGTCATTAATAGGATGATTTCCCATAGTAACGCCAA 718  
Db 3664 CGCCCAACGACCCCGCCCATTTGACGTCATTAATAGGATGATTTCCCATAGTAACGCCAA 3723  
Qy 719 TAGGGAATTTCCATGACGTCATATGGGTGAGTATTTACGGTAACCTGCCACATTTGGCAG 778  
Db 3724 TAGGGAATTTCCATGACGTCATATGGGTGAGTATTTACGGTAACCTGCCACATTTGGCAG 3783  
Qy 779 TACATCAAGTGTATCATATGCCAGTTCGGGCTTATTTGACGTCATATGAGTAAATGG 838  
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Qy 839 CCCGCCCTGGCATATGCCAGTACATGACCTTTACGGGACTTTTCTACTTGGCAGTACATC 898  
Db 3843 CCCGCCCTGGCATATGCCAGTACATGACCTTTATGGGACTTTTCTACTTGGCAGTACATC 3902  
Qy 899 TACGTTATTAGTCATCGCTATTACCATGGTGTATGGGATTTTGGCAGTACACCAATGGCGGT 958  
Db 3903 TACGTTATTAGTCATCGCTATTACCATGGTGTATGGGATTTTGGCAGTACATCAATGGCGGT 3962  
Qy 959 GGATAGCGGTTTGTACTACGGGGATTTTCCAGTCTCCACCCCATTTGACGTCATATGGGAGT 1018  
Db 3963 GGATAGCGGTTTGTACTACGGGGATTTTCCAGTCTCCACCCCATTTGACGTCATATGGGAGT 4022  
Qy 1019 TTGTTTGGGACCAAAATCAACGGGACTTTTCCAAAATGTGCTAATAACCCCGCCCGCTTG 1078  
Db 4023 TTGTTTGGGACCAAAATCAACGGGACTTTTCCAAAATGTGCTAATACTCGGCCCAATG 4082  
Qy 1079 ACGAAATGGCGGTAGGCGTGTATCGGTGGAGGTCTATATAAGCAGAGCTCGTTTATGT 1138  
Db 4083 ACGAAATGGCGGTAGGCGTGTATCGGTGGAGGTCTATATAAGCAGAGCTCGTTTATGT 4142  
Qy 1139 AACCGTCAGATCGCTTGAGAGCGCATCCAGCTGTTTGTGACCTCCATAGNAGACCGG 1198  
Db 4143 AACCGTCAGATCGCTTGAGAGCGCATCCAGCTGTTTGTGACCTCCATAGNAGACCGG 4202  
Qy 1199 GACCGATCCAGCTCCCGCGCGCGGAGCGGTGACATGGAACGCGGATTTCCCGGTGCCAAG 1258  
Db 4203 GACCGATCCAGCTCCCGCGCGCGGAGCGGTGACATGGAACGCGGATTTCCCGGTGCCAAG 4262

Qy 1259 AGTGACGTAACTACGCTATAGACTCTATAGGACACACCCCTTTGGC-TCTTATGCAATGC 1317  
Db 4263 AGTGACGTAACTACGCTATAGAGTCTATAGGACCAACCCCTTTGGCTTCTTATGCAATGC 4322  
Qy 1318 TATACTGTTTTCGGCTTTGGGCTTATACACCCCGGT-CCTTATGCTATAGGTGATGGTA 1376  
Db 4323 TATACTGTTTTCGGCTTTGGGCTTATACACCCCGGTCTCTCATGTTATAGGTGATGGTA 4382  
Qy 1377 TACTTTAGCCCTATAGGTGTTGGGTTATGACCAATATGACCACTCCCTATTTGGTACGA 1436  
Db 4383 TACTTTAGCCCTATAGGTGTTGGGTTATGACCAATATGACCACTCCCTATTTGGTACGA 4442  
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Db 4443 TACTTTCCATTAATCAATCAATGCTTTTGGCCAACTATCTCTATTTGGCTATAT 4501  
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Db 4502 GCCAATCACTGCTCTTCCAGAGACTGACACGGAATCTGTAATTTTACAGGATGGGTCCTC 4561  
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Db 4562 ATTTATTTTACAAATTCATATACAAACGCGGTCCCCGTGCCCGACATGGGCTCTT 4621  
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Db 4622 TAAACATAGGCTGGGATCTCCACGGAATCTCGGTAAGTGTTCGGGACATGGGCTCTT 4680  
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Db 4681 CTCGGGTAGGCGGAGCTTCCACATCCGAGCCC-TGGTCCCATGCTCCAGCGGCTCAT 4740  
Qy 1735 GGTGCTTCGGAGCTCTTGTCTCTTAA-CAGTGGAGGCCAGACTTAGGCAAGCAATG 1793  
Db 4741 GGTGCTTCGGAGCTCTTGTCTCTTAA-CAGTGGAGGCCAGACTTAGGCAAGCAATG 4800  
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Db 4801 CCACACCAACAGTGTCCGCAACAGGCGGTGGGTAAGGTAAGTGTCTGAAATGAG 4860  
Qy 1854 CTCGGAGATTGGCTCGACCG--TGACGCAGATGGAAGACTTAAAGCAGCGGCAAGA 1911  
Db 4861 CTCGGAGATTGGCTCGACCG--TGACGCAGATGGAAGACTTAAAGCAGCGGCAAGA 4920  
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Db 4921 AGATGAGGCGAGCTGAGTGTGTTGTTATTCGATAGAGTCAAGGTAAGTGTGCGGT 4980  
Qy 1972 GCTGTTAAACGGTGGAGGCGAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGCGCAC 2031  
Db 4981 GCTGTTAAACGGTGGAGGCGAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGCGCAC 5040  
Qy 2032 CAGACATAATAGTCTGACAGACTAACAGACTGTTCTTCCATGGTCTTTTCTGCACTCA 2091  
Db 5041 CAGACATAATAGTCTGACAGACTAACAGACTGTTCTTCCATGGTCTTTTCTGCACTCA 5100  
Qy 2092 CCGTCTTTCGACGATG 2108  
Db 5101 CCGTCTTTCGACGATG 5117

## RESULT 6

US-09-996-128A-1

; Sequence 1, Application US/09996128A

; Patent No. US20020150589A1

; GENERAL INFORMATION:

; APPLICANT: Houghton, Alan

; APPLICANT: Bergman, Phillip

; APPLICANT: Wolchok, Jedd

; TITLE OF INVENTION: Compositions for treatment of Melanoma and Methods of Using Same

; FILE REFERENCE: MSK P-026-3

; CURRENT APPLICATION NUMBER: US/09/996,128A





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Db 4358 AGACTAACAGACTGTTCTTTCCATGGGTCTTTCTGAGTACCGTCC 4406
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RESULT 7
US-09-996-128A-2
; Sequence 2, Application US/09996128A
; Patent No. US20020150589A1
; GENERAL INFORMATION:
; APPLICANT: Houghton, Alan
; APPLICANT: Bergman, Phillip
; APPLICANT: Wolchock, Jedd
; TITLE OF INVENTION: Compositions for treatment of Melanoma and Methods of Using Same
; FILE REFERENCE: MSK P-026-3
; CURRENT APPLICATION NUMBER: US/09/996,128A
; CURRENT FILING DATE: 2001-11-27
; PRIOR APPLICATION NUMBER: US 09/627,694
; PRIOR FILING DATE: 2000-07-28
; PRIOR APPLICATION NUMBER: US 09/308,697
; PRIOR FILING DATE: 1999-05-21
; PRIOR APPLICATION NUMBER: PCT/US97/22669
; PRIOR FILING DATE: 1997-12-10
; PRIOR APPLICATION NUMBER: US 60/036,419
; PRIOR FILING DATE: 1997-02-18
; PRIOR APPLICATION NUMBER: US 60/032,535
; PRIOR FILING DATE: 1996-12-10
; PRIOR APPLICATION NUMBER: US 60/180,651
; PRIOR FILING DATE: 2000-01-26
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 6485
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1..7)
; OTHER INFORMATION: vector containing murine tyrosinase
US-09-996-128A-2
Query Match 80.1%; Score 1739.2; DB 9; Length 6485;
Best Local Similarity 99.5%; Pred. No. 0;
Matches 1780; Conservative 0; Mismatches 5; Indels 4; Gaps 4;
Qy 312 AGTTTCGATATAGGTGACAGACGATATAGAGCTATATCGCGATAGAGCGACATCAAGC 371
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Qy 372 TGGCACATGGCCAAATGCATATCGATCTATACATTCGAATCAATATTTGGCAATTAGCCATAT 431
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Qy 731 ATTGACGTCAATGGGTGGAGTATTTACGGTAAACTGCCCACTTGGCAGTACATCAAGTGT 790
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Qy 851 TATGCCCAGTACATGACCTTTACGGGACTTTCTTACTTTGGCAGTACATCTAGCTATTAGTC 910
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Qy 1271 ACCGCTATAGACTCTATAGCAGACCCCTTTGGCTCTTATGATGATGCTATCTACTGTTTTG 1330
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Qy 1331 GCTTGGGGCTTATACACCCCGC-TCCTTATGCTATAGGTGATGATGATGCTTATAGCCTAT 1389
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Qy 1450 TAATCCATAACATGGGCTCTTTGCCACAACTATCTTATGGCTATATGCCAAATCTCTGT 1509
Db 3758 TAATCCATAACATGGGCTCTTTGCCACAACTATCTTATGGCTATATGCCAAATCTCTGT 3817
Qy 1510 CCTTCAGAGACTGACACGGACTCTGTATTTTTCAGGATGGGTCCTCATTTATTTATTTAC 1569
Db 3818 CCTTCAGAGACTGACACGGACTCTGTATTTTTCAGGATGGGTCCTCATTTATTTATTTAC 3877
Qy 1570 AAATTCAATATACAAACGCGCTCCCGCTGCCCGCCAGTTTATTAACAATAGCGTG 1629
Db 3878 AAATTCAATATACAAACGCGCTCCCGCTGCCCGCCAGTTTATTAACAATAGCGTG 3937
Qy 1630 GGATCTCCACGCAATCTCGGGTACGTTTCCGACATGGGCTCTTCTCCGCTAGCGCG 1689
Db 3938 GGATCTCCACGCAATCTCGGGTACGTTTCCGACATGGGCTCTTCTCCGCTAGCGCG 3997
Qy 1690 GAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGCTCATGTGCTCGCTCGGAGCT 1749
Db 3998 GAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGCTCATGTGCTCGCTCGGAGCT 4057
Qy 1750 CCTTGCTCTTAAACAGTGGAGCGCAGACTTAGGCACAGCAAAATGCCCAACCAACAGTG 1809
Db 4058 CCTTGCTCTTAAACAGTGGAGCGCAGACTTAGGCACAGCAAAATGCCCAACCAACAGTG 4117
Qy 1810 TGGCGCACAGGCGCTGGCGGTAGGCTATGCTGTAATAGCTCGGAGATGGGCTC 1869
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Db 4118 TGCCGACACAGCCGCTGGCGGTAGGGTATGTCTGAATAATGAGCTCGAGATTGGGCTC 4177  
Qy 1870 GCACCG-TGACGCGATGGAAGACTTAAAGGAGCGGCGAGAAAGATGACGCGAGCTGAG 1928  
Db 4178 GCACCGCTGACGCGATGGAAGACTTAAAGGAGCGGCGAGAAAGATGACGCGAGCTGAG 4237  
Qy 1929 TTGTTGTATTCTGATAAGAGTCAAGAGTAACTCCGCTTTCGCGGTGCTGTTAAACGGTGGAGG 1988  
Db 4238 TTGTTGTATTCTGATAAGAGTCAAGAGTAACTCCGCTTTCGCGGTGCTGTTAAACGGTGGAGG 4297  
Qy 1989 GCAGTGTAGTCTGAGCAGTACTCGTTGCTGCGGCGGCGCCACAGACATAATAGCTGAC 2048  
Db 4298 GCAGTGTAGTCTGAGCAGTACTCGTTGCTGCGGCGGCGCCACAGACATAATAGCTGAC 4357  
Qy 2049 AGACTAAACAGACTGTTCTTTCCATGGGTCTTTTCTGCACTCACCGTCC 2097  
Db 4358 AGACTAAACAGACTGTTCTTTCCATGGGTCTTTTCTGCACTCACCGTCC 4406

RESULT 8  
US-09-886-942-21  
; Sequence 21, Application US/09886942  
; Patent No. US20020081708A1  
; GENERAL INFORMATION:  
; APPLICANT: FUNNENEN, JUHA  
; WRIGHT, ANNE  
; SEMYONOV, ANDREY  
; APPLICANT:  
; TITLE OF INVENTION: NOVEL CHIMERIC PROMOTERS  
; FILE REFERENCE: 02-031910US  
; CURRENT APPLICATION NUMBER: US/09/886,942  
; PRIOR FILING DATE: 2001-06-21  
; PRIOR APPLICATION NUMBER: 60/213,829  
; PRIOR FILING DATE: 2000-06-23  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 21  
; LENGTH: 1767  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Consensus  
; OTHER INFORMATION: sequence  
US-09-886-942-21

Query Match 79.2%; Score 1718.4; DB 9; Length 1767;  
Best Local Similarity 99.7%; Pred. No. 0; Mismatches 1; Indels 4; Gaps 4;  
Matches 1763; Conservative 0; Mismatches 1; Indels 4; Gaps 4;  
Qy 335 ATATGAGGCTATATCGCCGATAGAGCGGACATCAAGCTGGCACATGGCCAATGCATATCG 394  
Db 1 ATATGAGGCTATATCGCCGATAGAGCGGACATCAAGCTGGCACATGGCCAATGCATATCG 60  
Qy 395 ATCTATACATTGAATCAATATTGGCAATTAGCCATATTAGTCAATTGGTTATATAGCATAA 454  
Db 61 ATCTATACATTGAATCAATATTGGCAATTAGCCATATTAGTCAATTGGTTATATAGCATAA 120  
Qy 455 ATCAATATTGGCTATTGGCCATTGGCATAGTGTATCTATATCAATAATGTACATTTAT 514  
Db 121 ATCAATATTGGCTATTGGCCATTGGCATAGTGTATCTATATCAATAATGTACATTTAT 180  
Qy 515 ATTGGCTCATGTCCCAATATGACCGGCATGTTGACATTTGATTATTGACTAGTTATTAAATAG 574  
Db 181 ATTGGCTCATGTCCCAATATGACCGGCATGTTGACATTTGATTATTGACTAGTTATTAAATAG 240  
Qy 575 TAAATCAATTACGGGTCATTAGTTTCATAGCCCATATATGAGGTTCCGGGTTACATACTT 634  
Db 241 TAAATCAATTACGGGTCATTAGTTTCATAGCCCATATATGAGGTTCCGGGTTACATACTT 300  
Qy 635 ACGGTAAATGGCCGCTCG-TGACGCCCAACGACCCCGCCCATTTGACGTCATTAATG 693  
Db 301 ACGGTAAATGGCCGCTCGTGTGACCGCCCAACGACCCCGCCCATTTGACGTCATTAATG 360

Qy 694 ACGTATGTTCCCATAGTAACGCCAAATAGGAGCTTTTCCATTGACGTCAATGGTGGAGTAT 753  
Db 361 ACGTATGTTCCCATAGTAACGCCAAATAGGAGCTTTTCCATTGACGTCAATGGTGGAGTAT 420  
Qy 754 TTACGGTAAATCGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTTCGGGCCCCC 813  
Db 421 TTACGGTAAATCGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTTC-CGCCCC 479  
Qy 814 TATTGACGTCAATGACCGGTAAATGGCCCGCTTGCGCATTAATGCCCAGTACATGACTTACG 873  
Db 480 TATTGACGTCAATGACCGGTAAATGGCCCGCTTGCGCATTAATGCCCAGTACATGACTTACG 539  
Qy 874 GGACTTTCTACTTGGCAGTACATCTACGTATTAGTCAATCGCTATTACATGAGTGTATGCG 933  
Db 540 GGACTTTCTACTTGGCAGTACATCTACGTATTAGTCAATCGCTATTACCATGTTGATGCG 599  
Qy 934 GTTTTGGCAGTACACCAATGGGCGTGTATAGCGGTTTGACTCACGGGGAATTTTCAAGTCT 993  
Db 600 GTTTTGGCAGTACACCAATGGGCGTGTATAGCGGTTTGACTCACGGGGAATTTTCAAGTCT 659  
Qy 994 CCACCCCAATTGACGTCAATGGGAGTTTGTTTTGGCACCAAAATCAACGGGACTTTTCAAAA 1053  
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Qy 1054 ATGTCGTAATAACCCCGCCCGCTTGGACGAAATGGGCGGTAGGCGTGTACGTTGGAGGT 1113  
Db 720 ATGTCGTAATAACCCCGCCCGCTTGGACGAAATGGGCGGTAGGCGTGTACGTTGGAGGT 779  
Qy 1114 CTATATAAGCAGAGCTCGTTTAGTGAACCGTTCAGATCGCTGGAGAGCCCATCCACGCTG 1173  
Db 780 CTATATAAGCAGAGCTCGTTTAGTGAACCGTTCAGATCGCTGGAGAGCCCATCCACGCTG 839  
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Qy 1234 TGGAAACGCGGATCCCGCTGCAAGAGTGAAGTAAAGTACCGCTTATAGACTCTATAGGCA 1293  
Db 900 TGGAAACGCGGATCCCGCTGCAAGAGTGAAGTAAAGTACCGCTTATAGACTCTATAGGCA 959  
Qy 1294 CACCCCTTTGGCTCTATGCAATGCTATACTGTTTTTGGCTTTGGGCGCTTATACACCCCGCG 1353  
Db 960 CACCCCTTTGGCTCTATGCAATGCTATACTGTTTTTGGCTTTGGGCGCTTATACACCCCGCG 1019  
Qy 1354 -TCCTTATGCTATAGTGTAGTGTATAGCTTATAGCCCTATAGGTTGGGTTATTGACCATTTAT 1412  
Db 1020 TTCCTTATGCTATAGTGTAGTGTATAGCTTATAGCCCTATAGGTTGGGTTATTGACCATTTAT 1079  
Qy 1413 TGACCACTCCCGCTATTTGGTGAAGTATCTTCCATTACTAATCCATATACATGGCTCTTTGC 1472  
Db 1080 TGACCACTCCCGCTATTTGGTGAAGTATCTTCCATTACTAATCCATATACATGGCTCTTTGC 1139  
Qy 1473 CACAACTATCTTATTTGGCTATATGCCAATACTCTGTCTTCAGAGACTGACACGAGCTC 1532  
Db 1140 CACAACTATCTTATTTGGCTATATGCCAATACTCTGTCTTCAGAGACTGACACGAGCTC 1199  
Qy 1533 TGTATTTTACAGGATGGGTTCCCATTTATTATTATTTACAAATTTACATATACAAACGCC 1592  
Db 1200 TGTATTTTACAGGATGGGTTCCCATTTATTATTATTTACAAATTTACATATACAAACGCC 1259  
Qy 1593 GTCCCGCGTCCCGCAGTTTTTATAACATAGGCTGGGATCTCCACCGGAATCTCGGGT 1652  
Db 1260 GTCCCGCGTCCCGCAGTTTTTATAACATAGGCTGGGATCTCCACCGGAATCTCGGGT 1319  
Qy 1653 ACGTGTTCGGACATGGGCTCTTCCGGTAGCGGCGAGCTTCCACATCCGAGCCCTGG 1712  
Db 1320 ACGTGTTCGGACATGGGCTCTTCCGGTAGCGGCGAGCTTCCACATCCGAGCCCTGG 1379  
Qy 1713 TCCCATGCTCCAGCGGCTCATGGTCTCGCTCGGCGAGCTCTTTGCTCTTAACAGTGGAGGCC 1772  
Db 1380 TCCCATGCTCCAGCGGCTCATGGTCTCGCTCGGCGAGCTCTTTGCTCTTAACAGTGGAGGCC 1439  
Qy 1773 AGACTTAGGCAAGCAAAATGCCACACACAGTGTGCCGCAACAGGCGGTGGCGGTA 1832



Db 1440 AGACTTAGCGACAGACAGTGGCCACACACAGTGTGCGCACAGGCGGTGGCGGTA 1499  
Qy 1833 GGGTATGTGTCTGAAAATGAGCTCGGAGATTGGGCTCGCACCG-TGACGCGAGATGGAAGA 1891  
Db 1500 GGGTATGTGTCTGAAAATGAGCTCGGAGATTGGGCTCGCACCGCTGACGCGAGATGGAAGA 1559  
Qy 1892 CTTAAGGCGCGGCGAGAGAGATGCGAGCGAGCTGAGTTGTTATCTGATAGAGTCA 1951  
Db 1560 CTTAAGGCGCGGCGAGAGAGATGCGAGCGAGCTGAGTTGTTATCTGATAGAGTCA 1619  
Qy 1952 GAGGTAACTCCCGTTGCGGCTGCTTAAACGGTGGAGGCGAGTGTAGTCTGAGCAGTACTC 2011  
Db 1620 GAGGTAACTCCCGTTGCGGCTGCTTAAACGGTGGAGGCGAGTGTAGTCTGAGCAGTACTC 1679  
Qy 2012 GTTGCTGCGCGCGCGCCACAGACATAATAGCTGACAGACTAAACAGACTGTTCTTTCC 2071  
Db 1680 GTTGCTGCGCGCGCGCCACAGACATAATAGCTGACAGACTAAACAGACTGTTCTTTCC 1739  
Qy 2072 ATGGGTCTTTTCTGCAAGTCACGGTCCCT 2099  
Db 1740 ATGGGTCTTTTCTGCAAGTCACGGTCCCT 1767

## RESULT 9

US-09-886-942-14  
; Sequence 14, Application US/09886942  
; Patent No. US20020081708A1  
; GENERAL INFORMATION:  
; APPLICANT: PUNNONEN, JUHA  
; WRIGHT, ANNE  
; SEMYONOV, ANDREY

; APPLICANT:  
; TITLE OF INVENTION: NOVEL CHIMERIC PROMOTERS  
; FILE REFERENCE: 02-031910US  
; CURRENT APPLICATION NUMBER: US/09/886,942  
; CURRENT FILING DATE: 2001-06-21  
; PRIOR APPLICATION NUMBER: 60/213,829  
; PRIOR FILING DATE: 2000-06-23  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 14

; LENGTH: 1767  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
; OTHER INFORMATION: oligonucleotide

US-09-886-942-14

Query Match 78.5%; Score 1702.4; DB 9; Length 1767;  
Best Local Similarity 99.2%; Pred. No. 0;  
Matches 1753; Conservative 0; Mismatches 11; Indels 4; Gaps 4;

Qy 335 ATATGAGCTATATCGCGATAGAGGCGACATCAAGCTGGCACATGGCCCAATGCATATCG 394  
Db 1 ATATGAGCTATATCGCGCATATAGGCGACATCAAGCTGGCACATGGCCCAATGCATATCG 60  
Qy 395 ATCTATACATGAATCAATATTGGCAATTAGCCATATTAGTCATTGGTTATATAGCATAA 454  
Db 61 ATCTATACATGAATCAATATTGGCAATTAGCCATATTAGTCATTGGTTATATAGCATAA 120  
Qy 455 ATCAATATTGGCTATTGGCCATTGCATACGTTGTATCTATATCATATAATATGACATTAT 514  
Db 121 ATCAATATTGGCTATTGGCCATTGCATACGTTGTATCTATATCATATAATATGACATTAT 180  
Qy 515 ATTGGCTCATGTCCAATATGACCGCCATGTTGACATGATTATTGACTAGTTTATATAG 574  
Db 181 ATTGGCTCATGTCCAATATGACCGCCATGTTGACATGATTATTGACTAGTTTATATAG 240  
Qy 575 TAATCAATTACGGGTCAATTAGTTTCATAGCCCATATATGGAGTTCCCGGTTTACATAACTT 634  
Db 241 TAATCAATTACGGGTCAATTAGTTTCATAGCCCATATATGGAGTTCCCGGTTTACATAACTT 300

Qy 635 ACGTAAATGGCCGCTCG-TGACCGCCCAACGACCCCGCCCATTTGACGTCAATATG 693  
Db 301 ACGTAAATGGCCGCTCGTGTGACCGCCCAACGACCCCGCCCATTTGACGTCAATATG 360  
Qy 694 ACGTATGTTCCCATAGTAACGCAATAGGAGCTTTTCCATTGACGTCAATGGTGGAGTAT 753  
Db 361 ACGTATGTTCCCATAGTAACGCAATAGGAGCTTTTCCATTGACGTCAATGGTGGAGTAT 420  
Qy 754 TTACGGTAAATCTGCCACTTTGGCAGTACATCAAGTGTATCATATGCCAAGTCCGCCCCC 813  
Db 421 TTACGGTAAATCTGCCACTTTGGCAGTACATCAAGTGTATCATATGCCAAGTCC-GCCCCC 479  
Qy 814 TATTGAGCTCAATGACGGTAAATGGCCCGCTGSCATTATGCCAGTACATGACCTTACG 873  
Db 480 TATTGAGCTCAATGACGGTAAATGGCCCGCTGSCATTATGCCAGTACATGACCTTACG 539  
Qy 874 GGACTTTCTTACTTTGGCAGTACATCTACGTATTAGTCATCGCTATTACATGGTGTATGCG 933  
Db 540 GGACTTTCTTACTTTGGCAGTACATCTACGTATTAGTCATCGCTATTACATGGTGTATGCG 599  
Qy 934 GTTTTGGCAGTACACCAATGGGCGTGGATAGCGGTTTGACTCACGGGATTTTCCAAGTCT 993  
Db 600 GTTTAGGCGAGTACACCAATGGGCGTGGATAGCGGTTTGACTCACGGGATTTTCCAAGTCT 659  
Qy 994 CCACCCCATTTGACGTCAATGGGAGTTTGTGTTGGCACCAAAATCAACGGGACTTTCCAAA 1053  
Db 660 CCACCCCATTTGACGTCAATGGGAGTTTGTGTTGGCACCAAAATCAACGGGACTTTCCAAA 719  
Qy 1054 ATGTCGTAATAACCCCGCTTTGACGCAAAATGGGCGGTAGGCGTGTACGGTGGGAGGT 1113  
Db 720 ATGTCGTAATAACCCCGCTTTGACGCAAAATGGGCGGTAGGCGTGTACGGTGGGAGGT 779  
Qy 1114 CTATATAAGCAGAGCTCGTTTAGTGAACCGTCAAGTCGCTGGAGAGCCCATCCACGCTG 1173  
Db 780 CTATATAAGCAGAGCTCGTTTAGTGAACCGTCAAGTCGCTGGAGAGCCCATCCACGCTG 839  
Qy 1174 TTTTGAACCTCATAGAAGACACCGGAGCCGATCAGGCTCGGGCCCGGGAACGGTGCAT 1233  
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Qy 1234 TGGAAACGCGGATTTCCCGTCCCAAGAGTGAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAA 1293  
Db 900 TGGAAACGCGGATTTCCCGTCCCAAGAGTGAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAA 959  
Qy 1294 CACCCCTTTGGCTCTTATGCTATGCTATGCTATGCTATGCTATGCTATGCTATGCTATGCT 1353  
Db 960 CACCCCTTTGGCTCTTATGCTATGCTATGCTATGCTATGCTATGCTATGCTATGCTATGCT 1019  
Qy 1354 -TCCTTATGCTATGCTATGCTATGCTATGCTATGCTATGCTATGCTATGCTATGCTATGCTAT 1412  
Db 1020 TTCTTTATGCTATGCTATGCTATGCTATGCTATGCTATGCTATGCTATGCTATGCTATGCTAT 1079  
Qy 1413 TGACCACTCCCTTATTTGGTCAAGTACTTTTCCATTACTTAATCCATACATGGCTCTTTGC 1472  
Db 1080 TGACCACTCCCTTATTTGGTCAAGTACTTTTCCATTACTTAATCCATACATGGCTCTTTGC 1139  
Qy 1473 CACAACTATCTTATTTGGCTATATGCCAATCTCTGCTCTTCAGAGACTGACACGGACTC 1532  
Db 1140 CACAACTATCTTATTTGGCTATATGCCAATCTCTGCTCTTCAGAGACTGACACGGACTC 1199  
Qy 1533 TGTATTTTACAGGATGGGTCCTTATTTATTTTAAATTTTCAAAATTTTCAATATCAACAGCC 1592  
Db 1200 TGTATTTTACAGGATGGGTCCTTATTTTAAATTTTCAAAATTTTCAATATCAACAGCC 1259  
Qy 1593 GTCCCGCTCCCGCAGTTTATTTAAACATAGCGTGGGATCTCCACGCAATCTCCGGT 1652  
Db 1260 GTCCCGCTCCCGCAGTTTATTTAAACATAGCGTGGGATCTCCACGCAATCTCCGGT 1319  
Qy 1653 ACGTGTTCGGGACATGGGCTCTTCTCCGGTAGGGCGGAGCTTCCACATCCGAGCCCTGG 1712  
Db 1320 ACGTGTTCGGGACATGGGCTCTTCTCCGGTAGGGCGGAGCTTCCACATCCGAGCCCTGC 1379

QY 1713 TCCCATGCTCCAGCGGCTCATGTGCTCGCTCGGACGCTCTTGTCTCTTAACAGTGGAGGCC 1772  
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Db 1380 TCCCATGCTCCAGCGGCTCATGTGCTCGCTCGGACGCTCTTGTCTCTTAACAGTGGAGGCC 1439  
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QY 1773 AGACTTAGGCACAGCACAATGCCACCAACACCAAGTGTGCGGCACCAAGCGCGTGGCGGTA 1832  
| | | | |  
Db 1440 AGACTTAGGCACAGCACAATGCCACCAACACCAAGTGTGCGGCACCAAGCGCGTGGCGGTA 1499  
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QY 1833 GGGTATGTCTGAAATAGCTCGGAGATTGGGCTCGCACCG-TGACGCAGATGGGAAGA 1891  
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Db 1500 GGGTATGTCTGAAATAGCTCGGAGATTGGGCTCGCACCGTGACGCAGATGGGAAGA 1559  
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QY 1892 CTTAAGGCAGCGGCAGAGAAGATGCAGCGAGCTGAGTGTGTATTCTGATAAGAGTCA 1951  
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Db 1560 CTTAAGGCAGCGGCAGAGAAGATGCAGCGAGCTGAGTGTGTATTCTGATAAGAGTCA 1619  
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QY 1952 GAGGTAACTCCGTTGCGGTGCTTTAAGCGTGGAGGCGAGTGTAGTCTGAGCGAGTACTC 2011  
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Db 1620 GAGGTAGCTCCGTTGCGGTGCTTTAAGCGTGGAGGCGAGTGTAGTCTGAGCGAGTACTC 1679  
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QY 2012 GTTGCTGCGCGCGGCCACCAAGACATAATAGCTGACAGACTTAACAGAGCTGTTCCTTTCC 2071  
| | | | |  
Db 1680 GTTGCTGCGCGCGGCCACCAAGACATAATAGCTGACAGACTTAACAGAGCTGTTCCTTTCC 1739  
| | | | |  
QY 2072 ATGGGTCTTTTCTGCAGTCACCGTCCCT 2099  
| | | | |  
Db 1740 ATGGGTCTTTTCTGCAGTCACCGTCCCT 1767  
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RESULT 10

US-09-886-942-15  
; Sequence 15, Application US/09886942  
; Patent No. US20020081708A1  
; GENERAL INFORMATION:  
; APPLICANT: PUNNONEN, JUHA  
; WRIGHT, ANNE  
; SEMYONOV, ANDREY  
; TITLE OF INVENTION: NOVEL CHIMERIC PROMOTERS  
; FILE REFERENCE: 02-031910US  
; CURRENT APPLICATION NUMBER: US/09/886,942  
; CURRENT FILING DATE: 2001-06-21  
; PRIOR APPLICATION NUMBER: 60/213,829  
; PRIOR FILING DATE: 2000-06-23  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 15  
; LENGTH: 1767  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
; OTHER INFORMATION: oligonucleotide  
US-09-886-942-15

Query Match 78.5%; Score 1702.4; DB 9; Length 1767;  
Best Local Similarity 99.2%; Pred. No. 0;  
Matches 1753; Conservative 0; Mismatches 11; Indels 4; Gaps 4;

QY 335 ATATGAGGCTATATGCCGATAGAGCGGCACATCAAGCTGGCACATGGCCCAATGCATATCG 394  
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Db 1 ATATGAGGCTATATGCCGATAGAGCGGCACATCAAGCTGGCACATGGCCCAATGCATATCG 60  
| | | | |  
QY 395 ATCTATACATTGAATCAATATTTGGCAATTAGGCATATTAGTCAATTATTTGGTTATATAGCATAA 454  
| | | | |  
Db 61 ATCTATACATTGAATCAATATTAGCAATTAGCCATATTAGTCAATTATTTGGTTATATAGCGTAA 120  
| | | | |  
QY 455 ATCAATATTGGCTATTGGCCATTGCATACGTTGTATCTATATCAATAATATGACATTTAT 514  
| | | | |  
Db 121 ATCAATATTGGCTATTGGCCATTGCATACGTTGTATCTATATCAATAATATGACATTTAT 180  
| | | | |  
QY 515 ATTGGCTATGCTCCCAATATGACCGCCATGTCATGATTTGACTAGTATTATTAATAG 574  
| | | | |

Db 181 ATTGGCTCATGTCCAATATGACCGCCATGTTGACATTGATTATTGACTAGTATTATAATAG 240  
| | | | |  
QY 575 TAATCAATTACGGGTCATTAGTTTCATAGCCCATATATGAGATTTCGCGTTTACATAACTT 634  
| | | | |  
Db 241 TAATCAATTACGGGTCATTAGTTTCATAGCCCATATATGAGATTTCGCGTTTACATAACTT 300  
| | | | |  
QY 635 ACAGTAAATGGCGCGCTCG-TGACGCGCCAAAGACCCCGCCCATTTGAGCTCAATATG 693  
| | | | |  
Db 301 ACAGTAAATGGCGCGCTCGTACCGCCCAAGACCCCGCCCATTTGAGCTCAATATG 360  
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QY 694 ACATATGTTCCCATAGTAACGCCAATAGGACCTTCCATTGACGTCAATGGGTGGAGTAT 753  
| | | | |  
Db 361 ACATATGTTCCCATAGTAACGCCAATAGGACCTTCCATTGACGTCAATGGGTGGAGTAT 420  
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QY 754 TTACGCTAAACTGCCCCACTTTGGCAGTACATCAAGTGTATCATATGCCAAGTCCGCCCCC 813  
| | | | |  
Db 421 TTACGCTAAACTGCCCCACTTTGGCAGTACATCAAGTGTATCATATGCCAAGTCC-GCCCCC 479  
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QY 814 TATTGACGTCAATGACGCTAAATGGCGCGCTGCGCATATGCCCAGTACATGACCTTACG 873  
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Db 480 TATTGACGTCAATGACGCTAAATGGCGCGCTGCGCATATGCCCAGTACATGACCTTACG 539  
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QY 874 GGACTTTCTTACTTTGGCAGTACATCTAGTATTAGTTCATCGCTATTACCATGTTGATGCG 933  
| | | | |  
Db 540 GGACTTTCTTACTTTGGCAGTACATCTCGGTATTAGTTCATCGCTATTACCATGTTGATGCG 599  
| | | | |  
QY 934 GTTTTGGCAGTACACCAATGGCGCTGGATAGCGGTTTGACTCAGCGGGAATTCGAACT 993  
| | | | |  
Db 600 GTTTTGGCAGTACACCAATGGCGCTGGATAGCGGTTTGACTCAGCGGGAATTCGAACT 659  
| | | | |  
QY 994 CCACCCCATTTGACGCTCAATGGGAGTTTGTGTCACCAAAATCAACGGGACTTTCCAAA 1053  
| | | | |  
Db 660 CCACCCCATTTGACGCTCAATGGGAGTTTGTGTCACCAAAATCAACGGGACTTTCCAAA 719  
| | | | |  
QY 1054 ATGTCGTAATAAACCCCGCTTACGCAAAATGGCGGTAGGCGTGTACGGTGGGAGGT 1113  
| | | | |  
Db 720 ATGTCGTAATAAACCCCGCTTACGCAAAATGGCGGTAGGCGTGTACGGTGGGAGGT 779  
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QY 1114 CTATATAAGCAGAGCTCGTTTGTAGTAAACCGTTCAGATCGCTGGAGAGCCCATCTATAGGCA 1173  
| | | | |  
Db 780 CTATATAAGCAGAGCTCGTTTGTAGTAAACCGTTCAGATCGCTGGAGAGCCCATCTATAGGCA 839  
| | | | |  
QY 1174 TTTTGACCTCATATAGAGACACCGGGACCGATCAGGCTCGCGCGCGGGGAACGGTGCAT 1233  
| | | | |  
Db 840 TTTTGACCTCATATAGAGACACCGGGACCGATCAGGCTCGCGCGCGGGGAACGGTGCAT 899  
| | | | |  
QY 1234 TGGAAACGGGATTCCTCGTGCACAGAGTGACGTAAAGTACCGCTTATAGACTCTTATAGGCA 1293  
| | | | |  
Db 900 TGGAAACGGGATTCCTCGTGCACAGAGTGACGTAAAGTACCGCTTATAGACTCTTATAGGCA 959  
| | | | |  
QY 1294 CACCCCTTTGGCTCTTATGCAATGCTATACCTGTTTGGCTTTGGGCGCTTATACACCCCGC 1353  
| | | | |  
Db 960 CACCCCTTTGGCTCTTATGCAATGCTATACCTGTTTGGCTTTGGGCGCTTATACACCCCGC 1019  
| | | | |  
QY 1354 -TCCTTATGCTATAGGTGATAGCTTACCTATAGGTTAGGTTGGTTTATGACCATPAT 1412  
| | | | |  
Db 1020 TTCCTTATGCTATAGGTGATAGCTTACCTATAGGTTAGGTTGGTTTATGACCATPAT 1079  
| | | | |  
QY 1413 TGACCACTCCCTATTGGTGACGATACCTTCCATTACTAAATCCATAACATGCTCTTTGC 1472  
| | | | |  
Db 1080 TGACCACTCCCTATTGGTGACGATACCTTCCATTACTAAATCCATAACATGCTCTTTGC 1139  
| | | | |  
QY 1473 CACAACTATCTATTGGCTATATGCCAATACTCTGTCTTTCAGAGACTGACGAGCTC 1532  
| | | | |  
Db 1140 CACAACTATCTATTGGCTATATGCCAATACTCTGTCTTTCAGAGACTGACGAGCTC 1199  
| | | | |  
QY 1533 TGTATTTTTCAGAGTGGGTCCCATTTTATTTTACAAATTTACATATACAAACGCC 1592  
| | | | |  
Db 1200 TGTATTTTTCAGAGTGGGTCTCATTTTATTTTACAAATTTACATATACAAACGCC 1259  
| | | | |  
QY 1593 GTCCCCCGTGGCGCAGTTTTTTTAAACATAGCGTGGGATCTCCACGCGAATCTCGGT 1652  
| | | | |  
Db 1260 GTCCCCCGTGGCGCAGTTTTTTTAAACATAGCGTGGGATCTCCACGCGAATCTCGGT 1319  
| | | | |

Qy 1653 ACGTGTCCGACATGGGCTCTTCTCCGCTAGCGCGGAGGCTTCCACATCCGAGCCCTGG 1712  
Db 1320 ACGTGTCCGACATGGGCTCTTCTCCGCTAGCGCGGAGGCTTCCACATCCGAGCCCTGG 1379  
Qy 1713 TCCCATGCTCCAGCGCTCATGTCTCGCTCGGAGCTCTTGTCTCTTAAAGTGGAGGCC 1772  
Db 1380 TCCCATGCTCCAGCGCTCATGTCTCGCTCGGAGCTCTTGTCTCTTAAAGTGGAGGCC 1439  
Qy 1773 AGACTTAGGCAACAGCAATGCCACCAACCAACCAACCAACCAACCAACCAACCAACCA 1832  
Db 1440 AGACTTAGGCAACAGCAATGCCACCAACCAACCAACCAACCAACCAACCAACCAACCA 1499  
Qy 1833 GGGTATGTCTGAAATAGCTCGGAGATTGGGCTGCGACCG-TGACGCAGATGGAAGA 1891  
Db 1500 GGGTATGTCTGAAATAGCTCGGAGATTGGGCTGCGACCG-TGACGCAGATGGAAGA 1559  
Qy 1892 CTTAAGGCAGCGGAGAGAGATGACAGGAGCTGAGTTGTTGTTCTGATAAGAGTCA 1951  
Db 1560 CTTAAGGCAGCGGAGAGAGATGACAGGAGCTGAGTTGTTGTTCTGATAAGAGTCA 1619  
Qy 1952 GAGTAACTCCGCTGGGCTCTGTTAAACGGTGGAGGCGAGTGTAGTCTGAGCAGTACTC 2011  
Db 1620 GAGTAACTCCGCTGGGCTCTGTTAAACGGTGGAGGCGAGTGTAGTCTGAGCAGTACTC 1679  
Qy 2012 GTTGTGCGCGCGCGCCACAGACATAATAGCTGACAGCTAACAGACTGTTCTTTCC 2071  
Db 1680 GTTGTGCGCGCGCGCCACAGACATAATAGCTGACAGCTAACAGACTGTTCTTTCC 1739  
Qy 2072 ATGGGTCTTTTCTGACGTACCGTCTT 2099  
Db 1740 ATGGGTCTTTTCTGACGTACCGTCTT 1767

## RESULT 11

US-09-886-942-16

; Sequence 16, Application US/09886942

; Patent No. US20020081708A1

; GENERAL INFORMATION:

; APPLICANT: PUNNONEN, JUHA

; WRIGHT, ANNE

; SEMYONOV, ANDREY

; APPLICANT:

; TITLE OF INVENTION: NOVEL CHIMERIC PROMOTERS

; FILE REFERENCE: 02-031910US

; CURRENT APPLICATION NUMBER: US/09/886,942

; CURRENT FILING DATE: 2001-06-21

; PRIOR APPLICATION NUMBER: 60/213,829

; PRIOR FILING DATE: 2000-06-23

; NUMBER OF SEQ ID NOS: 40

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 16

; LENGTH: 1767

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: Synthetic

; OTHER INFORMATION: oligonucleotide

US-09-886-942-16

Query Match 78.4%; Score 1700.8; DB 9; Length 1767;  
Best Local Similarity 99.1%; Pred. No. 0;  
Matches 1752; Conservative 0; Mismatches 12; Indels 4; Gaps 4;

Qy 335 ATATGAGCTATATCGCGATAGAGGCGACATCAAGCTGGCAGATGGCAATGCATATCG 394  
Db 1 ATATGAGCTATATCGCGGATATAGGCGACATCAAGCTGGCAGATGGCAATGCATATCG 60  
Qy 395 ATCTATACATTTGAATCAATATTTGGCAATTAGCCATATTAGTCAATTTATATAGCATAA 454  
Db 61 ATCTATACATTTGAATCAATATTTGGCAATTAGCCATATTAGTCAATTTATATAGCATAA 120  
Qy 455 ATCAATATTGGCTATTGGCCATTGACATACGTTGTATCTATATATCAATAATATGATCAATTTAT 514

Db 121 ATCAATATTGGCTATTGGCCATTGGCATAACGTTGTATCTATATCAATAATATGATCAATTTAT 180  
Qy 515 ATTGGCTCATGTCCAAATATGACCGCCATGTTGACATTGATTATGACTAGTATTATAATAG 574  
Db 181 ATTGGCTCATGTCCAAATATGACCGCCATGTTGACATTGATTATGACTAGTATTATAATAG 240  
Qy 575 TAATCAATTAAGGGGTCATTAGTTCATAGCCCATATATGAGATTCGCGGTTCAGATAACTT 634  
Db 241 TAATCAATTAAGGGGTCATTAGTTCATAGCCCATATATGAGATTCGCGGTTCAGATAACTT 300  
Qy 635 ACAGTAAATGGCCGCTCG-TGACCGCCCAACGACCGCCCGCCCATGATGACGTCAATAATG 693  
Db 301 ACAGTAGATGGCCGCTCGTGTGACCGCCCAACGACCGCCCGCCCATGATGACGTCAATAATG 360  
Qy 694 ACAGTATGTTCCCATAGTAAACGCAATAGGAGCTTTCCATTGACGTCAATGGTGGAGTAT 753  
Db 361 ACAGTATGTTCCCATAGTAAACGCAATAGGAGCTTTCCATTGACGTCAATGGTGGAGTAT 420  
Qy 754 TTACGGTAAATCTGCCCATCTTGGCAGTACATCAAGTGTATCATATGCCAAGTCCGGCCGCC 813  
Db 421 TTACGGTAAATCTGCCCATCTTGGCAGTACATCAAGTGTATCATATGCCAAGTCC-GCCGCC 479  
Qy 814 TATTGACGTCAATGACGGTAAATGGCCGCTGSCATTATGCCAGTACATGACCTTACG 873  
Db 480 TATTGACGTCAATGACGGTAAATGGCCGCTGSCATTATGCCAGTACATGACCTTACG 539  
Qy 874 GAGCTTTCTTCTTGGCAGTACATCTACGTATTAGTTCATCGCTATTACCATGGTGTGTCG 933  
Db 540 GAGCTTTCTTCTTGGCAGTACATCTACGTATTAGTTCATCGCTATTACCATGGTGTGTCG 599  
Qy 934 GTTTTGGCAGTACACCAATGGGCGTGGATAGCGGTTTGGACTCAGCGGGAATTTCCAAAGTCT 993  
Db 600 GTTTTGGCAGTACATCAATGGGCGTGGATAGCGGTTTGGACTCAGCGGGAATTTCCAAAGTCT 659  
Qy 994 CCACCCCATTTGACGTCAATGGGAGTTGTTTGGCACCAAAATCAACGGGAGCTTTCCAAA 1053  
Db 660 CCACCCCATTTGACGTCAATGGGAGTTGTTTGGCACCAAAATCAACGGGAGCTTTCCAAA 719  
Qy 1054 ATGTGCTAATAACCCCGCTTGGACCAAAATGGGCGGTAGGCGTGTACGGTGGGAGGT 1113  
Db 720 ATGTGCTAATAACCCCGCTTGGACCAAAATGGGCGGTAGGCGTGTACGGTGGGAGGT 779  
Qy 1114 CTATATAAGCAGAGCTCGTTTATGTAACCGTCAAGTCCCTGGAGAGCCCATCCACGCTG 1173  
Db 780 CTATATAAGCAGAGCTCGTTTATGTAACCGTCAAGTCCCTGGAGAGCCCATCCACGCTG 839  
Qy 1174 TTTTGCCTCCATAGAGACACCGGACCGATCCAGCTCCGCGGCGGGAAACGCTGCAT 1233  
Db 840 TTTTGCCTCCATAGAGACACCGGAGCCGATCCAGCTCCGCGGCGGGAAACGCTGCAT 899  
Qy 1234 TGGAAACGCGGATTCGCCGTCGCAAGAGTGAAGTACCGCTTATAGACTCTATAGGCA 1293  
Db 900 TGGAAACGCGGATTCGCCGTCGCAAGAGTGAAGTACCGCTTATAGACTCTATAGGCA 959  
Qy 1294 CACCCCTTTGGCTCTTATGCAATGCTATACCTATGTTTGGCTTTGGGCGCTATACACCCCGC 1353  
Db 960 CACCCCTTTGGCTCTTATGCAATGCTATACCTATGTTTGGCTTTGGGCGCTATACACCCCGC 1019  
Qy 1354 -TCCTTATGCTATAGGTGATGGTATAGCTTATAGCTTATAGGTGTTGTTTATGACCATAT 1412  
Db 1020 TTCTTATGCTATAGGTGATGGTATAGCTTATAGCTTATAGGTGTTGTTTATGACCATAT 1079  
Qy 1413 TGACCACTCCCTTATTTGGTGAACGATCTTTCCATTACTTAATCCATACATGGCTCTTTGC 1472  
Db 1080 TGACCACTCCCTTATTTGGTGAACGATCTTTCCATTACTTAATCCATACATGGCTCTTTGC 1139  
Qy 1473 CACAACTATCTTATTTGGCTATATGCCAAATCTGCTCTTTCAGAGACTGACACGGACTC 1532  
Db 1140 CACAACTATCTTATTTGGCTATATGCCAAATCTGCTCTTTCAGAGACTGACACGGACTC 1199  
Qy 1533 TGATATTTTACAGATGGGTCCTTATTTTACAAATTTTACATATCAATATCAACACGCC 1592

Db 1200 TGTATTTTACAGATGGGTCTCATTTATTTATTTTACAAATTCATATATACAAACAGCC 1259  
Qy 1593 GTCCCCGTCGCCGAGTTTTTATTAACATAGCGTGGATCTCCAGCGAATCTCCGGT 1652  
Db 1260 GTCCCCGTCGCCGAGTTTTTATTTAAACATAGCGTGGATCTCCAGCGAATCTCCGGT 1319  
Qy 1653 ACGTGTTCGGACATGGGCTCTCTCCGGTAGCGCGGAGCTTCCACATCCGAGCCCTGG 1712  
Db 1320 ACGTGTTCGGGATGGGCTCTCTCCGGTAGCGCGGAGCTTCCACATCCGAGCCCTGG 1379  
Qy 1713 TCCCATGCTCCAGGGCTCATGTCGTCTGGCAGCTCTCTTGGCTCCTTAACAGTGGAGGCC 1772  
Db 1380 TCCCATGCTCCAGGGCTCATGTCGTCTGGCAGCTCTCTTGGCTCCTTAACAGTGGAGGCC 1439  
Qy 1773 AGACTTAGGCACAGACAAATGCCACACACAGTGTGCCGACAGCGCGTGGCGGTA 1832  
Db 1440 AGACTTAGGCACAGACAAATGCCACACACAGTGTGCCGACAGCGCGTGGCGGTA 1499  
Qy 1833 GGGTATGTCTGAAATAGAGCTCGGAGATTGGGCTCGACCG-TGACGCAGATGGAGA 1891  
Db 1500 GGGTATGTCTGAAATAGAGCTCGGAGATTGGGCTCGACCGCTGACGCAGATGGAGA 1559  
Qy 1892 CTTAAGGAGGCGCAGAGAAGATCGAGCGAGCTGAGTGTGTATTCTGATAGAGTCA 1951  
Db 1560 CTTAAGGAGGCGCAGAGAAGATCGAGCGAGCTGAGTGTGTATTCTGATAGAGTCA 1619  
Qy 1952 GAGTAACTCCGTTGCGGTCTGTTAACGGTGGAGGCGAGTGTAGTCTGAGCAGTACTC 2011  
Db 1620 GAGTAACTCCGTTGCGGTCTGTTAACGGTGGAGGCGAGTGTAGTCTGAGCAGTACTC 1679  
Qy 2012 GTTGCTGCGCGCGCCACACAGACATAATAGCTGACAGACTTAACAGACTGTTCCTTTCC 2071  
Db 1680 GTTGCTGCGCGCGCCACACAGACATAATAGCTGACAGACTTAACAGACTGTTCCTTTCC 1739  
Qy 2072 ATGGGTCTTTCTGAGTCAACGTCCTT 2099  
Db 1740 ATGGGTCTTTCTGAGTCAACGTCCTT 1767

RESULT 12

US-09-886-942-5

Sequence 5, Application US/09886942

Patent No. US20020081708A1

GENERAL INFORMATION:

APPLICANT: PUNNONEN, JUHA

WRIGHT, ANNE

SEMONOV, ANDREY

APPLICANT:

TITLE OF INVENTION: NOVEL CHIMERIC PROMOTERS

FILE REFERENCE: 02-031910US

CURRENT APPLICATION NUMBER: US/09/886,942

CURRENT FILING DATE: 2001-06-21

PRIOR APPLICATION NUMBER: 60/213,829

PRIOR FILING DATE: 2000-06-23

NUMBER OF SEQ ID NOS: 40

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 5

LENGTH: 1767

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Synthetic

OTHER INFORMATION: oligonucleotide

US-09-886-942-5

Query Match 78.2%; Score 1696; DB 9; Length 1767;  
Best Local Similarity 98.9%; Pred. No. 0;  
Matches 1749; Conservative 0; Mismatches 15; Indels 4; Gaps 4;

Qy 335 ATATAGGCTATATCGCCGATAGAGCGGACATCAAGCTGGCACATGGCCCAATGCATATCG 394  
Db 1 ATATAGGCTATATCGCCGATAGAGCGGACATCAAGCTGGCACATGGCCCAATGCATATCG 60

Qy 395 ATCTATACATTTGAATCAATATGGCAATTAGCCATATTAGTCATTGGTTATATAGCATAA 454  
Db 61 ATCTATACATTTGAATCAATATGGCCATTAGCCATATTATTCATTGGTTATATAGCATAA 120  
Qy 455 ATCAATATTGGCTATTGGCCATTGGCCATTGCATACGTTCTATCTATATATATATATATAT 514  
Db 121 ATCAATATTGGCTATTGGCCATTGGCCATTGCATACGTTCTATCTATATATATATATATAT 180  
Qy 515 ATTGGCTCATGTCCAAATATGACCGCCATGTGTGACATTGATTATTGACTAGTATTATATAG 574  
Db 181 ATTGGCTCATGTCCAAATATGACCGCCATGTGTGACATTGATTATTGACTAGTATTATATAG 240  
Qy 575 TAATCAATTAAGGGGTCAATTAGTTCTATAGCCCATATATATGAGGTTCCCGTTTACATACTT 634  
Db 241 TAATCAATTAAGGGGTCAATTAGTTCTATAGCCCATATATATGAGGTTCCCGTTTACATACTT 300  
Qy 635 ACGTAAATGGCCGCGCTCG-TGACCGCCCAAGACCGCCCGCCATTCAGTCAATTAATG 693  
Db 301 ACGTAAATGGCCGCGCTCGTACCGCCCAAGACCGCCCGCCATTCAGTCAATTAATG 360  
Qy 694 ACGTATGTTCCTTCCATAGTAACGCCAATAAGGACCTTTCATTTGACGTCAATGGTGGAGTAT 753  
Db 361 ACGTATGTTCCTTCCATAGTAACGCCAATAAGGACCTTTCATTTGACGTCAATGGTGGAGTAT 420  
Qy 754 TTACGGTAAACTGCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTCCCGCCCC 813  
Db 421 TTACGGTAAACTGCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTAC-GCCCC 479  
Qy 814 TATTGACGTCAATGACCGTAAATGGCCGCGCTGSCATATTATGCCAGTACATGACCTTACG 873  
Db 480 TATTGACGTCAATGACCGTAAATGGCCGCGCTGSCATATTATGCCAGTACATGACCTTACG 539  
Qy 874 GGACTTTCTCTTCTTGGCAGTACATCTACGTATTAGTTCATCGCTATTACCTATGATGGT 933  
Db 540 GGACTTTCTCTTCTTGGCAGTACATCTACGTATTAGTTCATCGCTATTACCTATGATGGT 599  
Qy 934 GTTTTGGCAGTACACCAATGGCGTGGATAGCGTTTGAATCAGCGGATTTCCCAAGTCT 993  
Db 600 GTTTTGGCAGTACACCAATGGCGTGGATAGCGTTTGAATCAGCGGATTTCCCAAGTCT 659  
Qy 994 CCACCCCATTTGACGTCAATGGGAGTTTGTTTTGGCACCAAAATCAACGGGACTTTCCAAA 1053  
Db 660 CCACCCCATTTGACGTCAATGGGAGTTTGTTTTGGCACCAAAATCAACGGGACTTTCCAAA 719  
Qy 1054 ATGTCGTAATAACCCCGCCCGTTTGGCAGTAAATGGCGGTAGGCGTGTACGGTGGAGGT 1113  
Db 720 ATGTCGTAATAACCCCGCCCGTTTGGCAGTAAATGGCGGTAGGCGTGTACGGTGGAGGT 779  
Qy 1114 CTATATAAGCAGAGCTCGTTTAGTGAACCGTCAATCGCTGGAGAGCCCATCCACCGCTG 1173  
Db 780 CTATATAAGCAGAGCTCGTTTAGTGAACCGTCAATCGCTGGAGAGCCCATCCACCGCTG 839  
Qy 1174 TTTTGACCTCCATAGAGACACCGGGACCGATCCAGCCTCCGCGCCGGGAACCGTGCAT 1233  
Db 840 TTTTGACCTCCATAGAGACACCGGGACCGATCCAGCCTCCGCGCCGGGAACCGTGCAT 899  
Qy 1234 TGGAAACGCGGATTCCTCCGTCAGAGTGAAGTAAAGTACCGCCTATAGACTCTATAGCA 1293  
Db 900 TGGAAACGCGGATTCCTCCGTCAGAGTGAAGTAAAGTACCGCCTATAGACTCTATAGCA 959  
Qy 1294 CACCCCTTTGGCTCTTATGATGCTATATCTGTTTTTGGCTTTGGGCGCTTATACACCCCGC 1353  
Db 960 CACCCCTTTGGCTCTTATGATGCTATATCTGTTTTTGGCTTTGGGCGCTTATACACCCCGC 1019  
Qy 1354 -TCCTTATGCTATAGGTGATGCTTAGCTTAGCCCTATAGGTGTGGTTATTGACCATTAT 1412  
Db 1020 TTCCTTATGCTATAGGTGATGCTTAGCCCTATAGGTGTGGTTATTGACCATTAT 1079  
Qy 1413 TGACCACTCCCGTATTGGTGAAGTACTTTCCATTACTTAATCCATAAATGCTCTTGGC 1472  
Db 1080 TGACCACTCCCGTATTGGTGAAGTACTTTCCATTACTTAATCCATAAATGCTCTTGGC 1139  
Qy 1473 CACAACTATCTCTATTGGCTATATGCCAAATCTCTGTCTCTCAGAGACTGACACGGACTC 1532

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Db 1140 CACAACCTAATCTATTTGGCTATATGCCAATACTCTGTCTTTAGAGACTGACACGGACTC 1199
Qy 1533 TGTATTTTTCAGGATGGGGTCCCATTTATTTATTTTACAAATTTACATATACAAACAGGCC 1592
Db 1200 TGTATTTTTCAGAGATGGGGTCTCATTTATTTTACAAATTTACATATACAAACAGGCC 1259
Qy 1593 GTCCCGCGTCCCGAGGATTTTATTAACAATAGCGTGGGATCTCCACGCGAATCTCGGGT 1652
Db 1260 GTCCCGCGTCCCGAGGATTTTATTAACAATAGCGTGGGATCTCCACGCGAATCTCGGGT 1319
Qy 1653 ACGTGTTCGGACATGGGCTCTCTCCGGTAGCGCGGAGCTTCCACATCCGAGCCCTGG 1712
Db 1320 ACGTGTTCGGACATGGGCTCTCTCCGGTAGCGCGGAGCTTCCACATCCGAGCCCTGG 1379
Qy 1713 TCCCATGCTCCAGCGGCTCATGTGCTCGCGAGCTCCTTGCTCTTAAACAGTGGAGGCC 1772
Db 1380 TCCCATGCTCCAGCGGCTCATGTGCTCGCGAGCTCCTTGCTCTTAAACAGTGGAGGCC 1439
Qy 1773 AGACTTAGGACAGACAAATGCCCAACCAACAGTGTGCGGACG- TGACGCGAGATGGA 1832
Db 1440 AGACTTAGGACAGACAAATGCCCAACCAACAGTGTGCGGACG- TGACGCGAGATGGA 1499
Qy 1833 GGGTATGTGCTGAAATGAGCTCGGAGATTTGGGCTCGCACCG- TGACGCGAGATGGA 1891
Db 1500 GGGTATGTGCTGAAATGAGCTCGGAGAGCGGGCTTGACCCGCTGACGAGATGGA 1559
Qy 1892 CTTAAGGCGAGCGGACAGAAAGATGACGAGCTGAGTGTGTTGATTTCTGATAAGATGCA 1951
Db 1560 CTTAAGGCGAGCGGACAGAAAGATGACGAGCTGAGTGTGTTGATTTCTGATAAGATGCA 1619
Qy 1952 GAGTAACTCCGTTGCGGCTCTGTTAAACGTTGAGGCGAGTGTAGTCTGAGCAGTACTC 2011
Db 1620 GAGTAACTCCGTTGCGGCTCTGTTAAACGTTGAGGCGAGTGTAGTCTGAGCAGTACTC 1679
Qy 2012 GTTCTCGCGCGCGCGCCACGACATATAGCTGACAGACTACAGACTGTTCTTTCC 2071
Db 1680 GTTCTCGCGCGCGCGCCACGACATATAGCTGACAGACTACAGACTGTTCTTTCC 1739
Qy 2072 ATGGGTCTTTTCTGAGTACCGCTT 2099
Db 1740 ATGGGTCTTTTCTGAGTACCGCTT 1767
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## RESULT 13

US-10-446-629-2

; Sequence 2, Application US/10446629

; Publication No. US20040110295A1

; GENERAL INFORMATION:

; APPLICANT: Punnonen, Juha

; APPLICANT: Apt, Doris

; APPLICANT: Whalen, Robert Gerald

; TITLE OF INVENTION: NUCLEIC ACID VECTORS

; FILE REFERENCE: 0328.210US

; CURRENT APPLICATION NUMBER: US/10/446,629

; CURRENT FILING DATE: 2003-05-28

; PRIOR APPLICATION NUMBER: US 60/384,002

; PRIOR FILING DATE: 2002-05-28

; NUMBER OF SEQ ID NOS: 13

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 2

; LENGTH: 3879

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: pmv10.1-shuffled CMV DNA expression vector

US-10-446-629-2

Query Match 78.1%; Score 1694.6; DB 17; Length 3879;

Best Local Similarity 98.4%; Pred. No. 0;

Matches 1753; Conservative 0; Mismatches 24; Indels 4; Gaps 4;

Qy 322 TAGGTGACAGACGATATGAGGCTATATCGCGGATAGAGCGGACATCAAGCTGGCACATGG 381

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Db 2100 TTGCTGTGATATCATATGAGGCTATATCGCGATAGAGCGACATCAAGCGGCAATGG 2159
Qy 382 CCAATGATATCGATCTATATCAATTTGAATCAATTTGGCAATTTAGCCATTTAGTTCATTTGG 441
Db 2160 CCAATGATATCGATCTATATCAATTTGAATCAATTTGGCAATTTAGCCATTTAGTTCATTTGG 2219
Qy 442 TTATATAGCATAAATCAATATTTGGCTATTTGGCCATTTGCATACGTTGTATCTATATCATAA 501
Db 2220 TTATATAGCATAAATCAATATTTGGCTATTTGGCCATTTGCATACGTTGTATCTATATCATAA 2279
Qy 502 TATGTACATTTATTTGGCTCATGTCCAATATGACCGCCATTTGACATTTGATTTATTTGAC 561
Db 2280 TATGTACATTTATTTGGCCATTTGCCAATATGACCGCCATTTGACATTTGATTTATTTGAC 2339
Qy 562 TAGTTATTAATAGTAATCAATTTACGGGCTCATTTAGTTTCATAGCCCATATATGAGTGTCCG 621
Db 2340 TAGTTATTAATAGTAATCAATTTACGGGCTCATTTAGTTTCATAGCCCATATATGAGTGTCCG 2399
Qy 622 CGTTACATAACTTACGGTAAATGGCGGCTCG- TGACCGCCCAACGACCGCCGCCCATTT 680
Db 2400 CGTTACATAACTTACGGTAAATGGCGGCTCG- TGACCGCCCAACGACCGCCGCCCATTT 2459
Qy 681 GACGTCAATTAATGACGTATCTTCCCATAGTAACGCCCAATAGGGAATTTCCATTTGACGCTCA 740
Db 2460 GACGTCAATTAATGACGTATCTTCCCATAGTAACGCCCAATAGGGAATTTCCATTTGACGCTCA 2519
Qy 741 ATGGGTGAGGATTTTACGGTAAACTTGCCCACTTTGGCAGTACATCAAGTGTATCATATGCCC 800
Db 2520 ATGGGTGAGGATTTTACGGTAAACTTGCCCACTTTGGCAGTACATCAAGTGTATCATATGCCC 2579
Qy 801 AAGTCCGGCCCCCTATTGACGTCAATGACGCTAAATAGGCCCGGCTGGCATTTATGCCCAAGT 860
Db 2580 AAGTCC- GCCCCCTATTGACGTCAATGACGCTAAATAGGCCCGGCTGGCATTTATGCCCAAGT 2638
Qy 861 ACATGACCTTACGGGACTTTTCTACTTTGGCAGTACATCTACGTATTTAGTTCATCGCTATTA 920
Db 2639 ACATGACCTTACGGGACTTTTCTACTTTGGCAGTACATCTACGTATTTAGTTCATCGCTATTA 2698
Qy 921 CCATGTTGATGCGGTTTGGCAGTACACCAATGGGCGTGATAGCGGTTTGACTTCACGGG 980
Db 2699 CCATGTTGATGCGGTTTGGCAGTACATCAATGGGCGTGATAGCGGTTTGACTTCACGGG 2758
Qy 981 GATTTCCAGTCTCCACCCCATTTGACGTCAATGGGAGTTGTTTGTGGCACAACAAATCAAC 1040
Db 2759 GATTTCCAGTCTCCACCCCATTTGACGTCAATGGGAGTTGTTTGTGGCACAACAAATCAAC 2818
Qy 1041 GGGACTTTCCAAATGTCGTAATAACCCCGCCCGTTGACGCAAAATGGGCGGTAGGCGTG 1100
Db 2819 GGGACTTTCCAAATGTCGTAATAACCCCGCCCGTTGACGCAAAATGGGCGGTAGGCGTG 2878
Qy 1101 TACGGTGGGAGGCTATATAAGCAGAGCTCGTTTGTAGTGAACCGTCAGATCGCCTGGAGAC 1160
Db 2879 TACGGTGGGAGGCTATATAAGCAGAGCTCGTTTGTAGTGAACCGTCAGATCGCCTGGAGAC 2938
Qy 1161 GCCATCCACGCTGTTTGTGACCTCCATAGAAAGACACCGGGACCGATCCAGCCTCCCGGCC 1220
Db 2939 GCCATCCACGCTGTTTGTGACCTCCATAGAAAGACACCGGGACCGATCCAGCCTCCCGGCC 2998
Qy 1221 GGGAAACGGTGCATTTGGAAACCGGATTTCCCGTGGCAAGAGTACGTAAGTACCGCCTATA 1280
Db 2999 GGGAAACGGTGCATTTGGAAACCGGATTTCCCGTGGCAAGAGTACGTAAGTACCGCCTATA 3058
Qy 1281 GACTCTATAGGCACACCCCTTTTGGCTCTTATGATGCTACTTGTGTTTGGCTTGGGGCC 1340
Db 3059 GACTCTATAGGCACACCCCTTTTGGCTCTTATGATGCTACTTGTGTTTGGCTTGGGGCC 3118
Qy 1341 TATACACCCCGC- TCCTTATGCTATAGGTGATGTTAGTCTTAGCCCTATAGGTGTGGGT 1399
Db 3119 TATACACCCCGCCTTCTTATGCTATAGGTGATGTTAGTCTTAGCCCTATAGGTGTGGGT 3178
Qy 1400 TATTGACCATTTATGACCACTCCCTTATTGGTGACGATCTTTCCCATTTACTTAATCCATAA 1459
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Db 3179 TATTGACCAATTATTGACCACTCCCTATTGTTGGAGTACTTTCCATTACTAAATCCATAA 3238  
Qy 1460 CATGGCTCTTTGGCCAACTATCTCTATTGGCTATATGCCAATACTCTGTCTTTCAGAGA 1519  
Db 3239 CATGGCTCTTTGGCCAACTATCTCTATTGGCTATATGCCAATACTCTGTCTTTCAGAGA 3298  
Qy 1520 CTGACACGGACTCTGTATTTTACAGGATGGGTCCCATTTATTATTACAAATTCACAT 1579  
Db 3299 CTGACACGGACTCTGTATTTTACAGGATGGGTCCCATTTATTATTACAAATTCACAT 3358  
Qy 1580 ATACAAACACGGCTCCCGTCCCGCAGCTTTTATTAAACATAGCGTGGATCTCCAC 1639  
Db 3359 ATACAAACACGGCTCCCGTCCCGCAGCTTTTATTAAACATAGCGTGGATCTCCAC 3418  
Qy 1640 GCGAATCTCGGGTAGCTGTCCGACATGGCTCTTCTCCGGTAGCGCGAGCTTCCAC 1699  
Db 3419 GCGAATCTCGGGTAGCTGTCCGACATGGCTCTTCTCCGGTAGCGGTGGGGTTCAC 3478  
Qy 1700 ATCCGAGCCCTGGTCCCATGGCTCCAGCGGCTCATGFTCGGCAGCTCCTTGTCTCT 1759  
Db 3479 ATCCGAGCCCTGGTCCCATGGCTCCAGCGACTCATGFTCGGTCCGAGCTCCTTGTCTCC 3538  
Qy 1760 AACAGTGAGCGCAGACTTAGGCACAGACAAATGCCACACACCATGTCGCCGACAA 1819  
Db 3539 AACAGTGAGCGCAGACTTAGGCACAGACAAATGCCACACACCATGTCGCCGACAA 3598  
Qy 1820 GGCGTGGCGGTAGGTTATGTCTGAAATGAGCTCGAGATTGGGCTCGCACCG-TGA 1878  
Db 3599 GGCGTGGCGGTAGGTTATGTCTGAAATGAGCTCGAGATTGGGCTCGCACCGTGA 3658  
Qy 1879 CGCAGATGGAAGACTTAAGGCAGCGGCAGAGAAGATCGGCAGCTGAGTTGTGTATT 1938  
Db 3659 CGCAGATGGAAGACTTAAGGCAGCGGCAGAGAAGATCGGCAGCTGAGTTGTGTATT 3718  
Qy 1939 CTGATAAGAGTCAGAGTTAACTCCCGTTGGCGTGTGTTAAAGTGGAGGCGAGTGTAGT 1998  
Db 3719 CTGATAAGAGTCAGAGTTAACTCCCGTTGGCGTGTGTTAAAGTGGAGGCGAGTGTAGT 3778  
Qy 1999 CTGAGCAGTACTCTGTTGTCGCGCGCGCCACACAGACATAATAGCTCAGACACTAAACAG 2058  
Db 3779 CTGAGCAGTACTCTGTTGTCGCGCGCGCCACACAGACATAATAGCTCAGACACTAAACGG 3838  
Qy 2059 ACTGTTCTTTCCATGGGTCTTTTCTGCAGTCAACGTCCTT 2099  
Db 3839 ACTGTTCTTTCCATGGGTCTTTTCTGCAGTCAACGTCCTT 3879

RESULT 14  
US-10-446-629-3  
; Sequence 3, Application US/10446629  
; Publication No. US20040110295A1  
; GENERAL INFORMATION:  
; APPLICANT: Punnonen, Juha  
; APPLICANT: Apt, Doris  
; APPLICANT: Whalen, Robert Gerald  
; TITLE OF INVENTION: NUCLEIC ACID VECTORS  
; FILE REFERENCE: 0328.210US  
; CURRENT APPLICATION NUMBER: US/10/446,629  
; CURRENT FILING DATE: 2003-05-28  
; PRIOR APPLICATION NUMBER: US 60/384,002  
; PRIOR FILING DATE: 2002-05-28  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 3  
; LENGTH: 4790  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: PMV10.1-CD28BP DNA expression vector  
US-10-446-629-3

Query Match 78.1%; Score 1694.6; DB 17; Length 4790;  
Best Local Similarity 98.4%; Pred. No. 0;

Matches 1753; Conservative 0; Mismatches 24; Indels 4; Gaps 4;  
Qy 322 TAGGTGACAGACGATATGAGGCTATATCGCCGATAGAGGCGACATCAAGCTGGCACATGG 381  
Db 3011 TTGCTCTGATATCATATGAGGCTATATCGCCGATAGAGGCGACATCAAGCGGCACATGG 3070  
Qy 382 CCAATGCAATTCGATCTATACATTTGAATCAATATTGGCAATTAGCCATATTAGTCATTGG 441  
Db 3071 CCAATGCAATTCGATCTATACATTTGAATCAATATTGGCAATTAGCCATATTATTTCATTGG 3130  
Qy 442 TTATATAGCAATAATCAATATTGGCTATTGGCCATTGCATACGTTGTATCTATATCATAA 501  
Db 3131 TTATATAGCAATAATCAATATTGGCTATTGGCCATTGCATACGTTGTATCTCGTATCATAA 3190  
Qy 502 TATGTACATTTATATTGGCTCATGTCCAATATACCGCCCATGTTGACATTCATTATTGAC 561  
Db 3191 TATGTACATTTATATTGGCCCATGTCCAAATAGACCGCCCATGTTGACATTCATTATTGAC 3250  
Qy 562 TAGTTATTAATAGTAAATCAATTTAGGGGTCAATTAGTTTCATAGCCCATATATGAGTTCCG 621  
Db 3251 TAGTTATTAATAGTAAATCAATTTAGGGGTCAATTAGTTTCATAGCCCATATATGAGTTCCG 3310  
Qy 622 CGTTACATAACTTACGGTAAATGGCCGCGCTCG-TGACCGCCCAACGACCCCGCCCAT 680  
Db 3311 CGTTACATAACTTACGGTAAATGGCCGCGCTCGTGGCTGACCGCCCAACGACCCCGCCCAT 3370  
Qy 681 GACGTCAATATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTTTCCATTGACGTCA 740  
Db 3371 GACGTCAATATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTTTCCATTGACGTCA 3430  
Qy 741 ATGGGTGGAGTATTTCACGGTAAACTGCCCACCTTGGCAGTACATCAAGTGTATCATATGCC 800  
Db 3431 ATGGGTGGAGTATTTCACGGTAAACTGCCCACCTTGGCAGTACATCAAGTGTATCATATGCC 3490  
Qy 801 AAGTCCCGCCCTCTTTCACGTCAATGACGGTAAATGGCCGCTGTCATTTATCCCGAGT 860  
Db 3491 AAGTCC-GCCCTCTTTCACGTCAATGACGGTAAATGGCCGCTGTCATTTATCCCGAGT 3549  
Qy 861 ACATGACCTTACGGGACTTTTCTTACTTGGCAGTACATCTAGCTATTAGTCACTGCTATTA 920  
Db 3550 ACATGACCTTACGGGACTTTTCTTACTTGGCAGTACATCTAGCTATTAGTCACTGCTATTA 3609  
Qy 921 CCATGGTATGCGGTTTGGCAGTACACCAATGGGCGTGGATAGCGGTTTGACTCACGGG 980  
Db 3610 CCATGGTATGCGGTTTGGCAGTACATCAATGGGCGTGGATAGCGGTTTGACTCACGGG 3669  
Qy 981 GATTTCCAGTCTCCACCCCATTTGACGTCAATGGGAGTGTGTTTTGGCACCACAAATCAAC 1040  
Db 3670 GATTTCCAGTCTCCACCCCATTTGACGTCAATGGGAGTGTGTTTTGGCACCACAAATCAAC 3729  
Qy 1041 GGGACTTTTCCAAAATGTCGTAATAACCCCGCCCGTTGACGCAATGGGCGGTAGGCGTG 1100  
Db 3730 GGGACTTTTCCAAAATGTCGTAATAACCCCGCCCGTTGACGCAATGGGCGGTAGGCGTG 3789  
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Db 3790 TACGGTGGAGGTTCTATATAGCAGAGCTGTTTATGAGAACCCGTCAGATCCGCTGGAGAC 3849  
Qy 1161 GCCATCCACGCTGTTTTGACCTCCATAGAGACACCGGACCGATCCAGCCCTCCGCGGCC 1220  
Db 3850 GCCATCCACGCTGTTTTGACCTCCATAGAGACACCGGACCGATCCAGCCCTCCGCGGCC 3909  
Qy 1221 GGGAAACGGTGCATTTGGAAACCGGATTCCTCCGTGCAAGAGTACGTAAGTACCCTATA 1280  
Db 3910 GGGAAACGGTGCATTTGGAAACCGGATTCCTCCGTGCAAGAGTACGTAAGTACCCTATA 3969  
Qy 1281 GACTCTATAGGCACACCCCTTTTGGCTCTTATGCAATGCTATATCTGTTTGGCTTGGGGCC 1340  
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Qy 1341 TATACACCCCGC-TCCCTTATGCTATAGGTGATAGCTATAGCTTACCTATAGGTGTGGGT 1399  
Db 4030 TATACACCCCGCCTTCCCTTATGCTATAGGTGATAGCTTACCTATAGGTGTGGGT 4089



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## RESULT 15

US-09-886-942-18  
; Sequence 18, Application US/09886942  
; Patent No. US20020081708A1  
; GENERAL INFORMATION:  
; APPLICANT: FUNNEN, JUHA  
; WRIGHT, ANNE  
; SEMONOV, ANDREY  
; APPLICANT:  
; TITLE OF INVENTION: NOVEL CHIMERIC PROMOTERS  
; FILE REFERENCE: 02-031910US  
; CURRENT APPLICATION NUMBER: US/09/886,942  
; CURRENT FILING DATE: 2001-06-21  
; PRIOR FILING DATE: 2001-06-21  
; PRIOR FILING DATE: 2000-06-23  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 18  
; LENGTH: 1767  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic

## ; OTHER INFORMATION: oligonucleotide

US-09-886-942-18

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QY 1952 GAGGTAACCTCCGTTGCGGTGCTGTTAACGGTGGAGGCGAGTGTAGTCTGAGCAGTACTC 2011  
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QY 2012 GTTGTGCGCGCGCGCCACGACATATAGCTGACAGACTAACAGACTGTTCCCTTTCC 2071  
Db 1680 GTTGTGCGCGCGCGCCACGACATATAGCTGACAGACTAACAGACTGTTCCCTTTTC 1739  
QY 2072 ATGGGTCTTTTCTGAGTCACCGTCCTT 2099  
Db 1740 ATGGGTCTTTTCTGAGTCACCGTCCTT 1767

Search completed: December 20, 2004, 14:18:54  
Job time : 1163.7 secs



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3	79.6	54.9	4328	3	US-08-910-647-2	Sequence 2, Appli	
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25	79.6	54.9	5682	2	US-08-663-998-4	Sequence 4, Appli	
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; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/132,808
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fujita, Sharon M.
; REGISTRATION NUMBER: 38,459
; REFERENCE/DOCKET NUMBER: 1387.002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 923-2706
; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4328 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-09-132-808-1
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; Query Match 54.9%; Score 79.6; DB 3; Length 4328;
; Best Local Similarity 90.4%; Pred. No. 1.2e-16;
; Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;
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; QY 112 TCCTTTTCTTTTTCAGTCACCGTCGTCGAC 145
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; RESULT 3
; US-09-910-647-2
; Sequence 2, Application US/08910647
; Patent No. 6251433
; GENERAL INFORMATION:
; APPLICANT: Zuckermann et al.
; TITLE OF INVENTION: Compositions and Methods for
; Polynucleotide Delivery
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/132,808
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fujita, Sharon M.
; REGISTRATION NUMBER: 38,459
; REFERENCE/DOCKET NUMBER: 1218.002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 923-2706
; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4328 base pairs
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; STRANDEDNESS: single
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; QY 112 TCCTTTTCTTTTTCAGTCACCGTCGTCGAC 145
; DB 1615 TCCATGGGTCCTTTCTGCAGTCACCGTCGTCGAC 1648
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; RESULT 3
; US-09-910-647-2
; Sequence 2, Application US/08910647
; Patent No. 6251433
; GENERAL INFORMATION:
; APPLICANT: Zuckermann et al.
; TITLE OF INVENTION: Compositions and Methods for
; Polynucleotide Delivery
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/910,647
; FILING DATE:
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Fujita, Sharon M.
; REGISTRATION NUMBER: 38,459
; REFERENCE/DOCKET NUMBER: 1218.002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 923-2706
; TELEFAX: (510) 655-3542
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; LENGTH: 4328 base pairs
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; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-910-647-2
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; Query Match 54.9%; Score 79.6; DB 3; Length 4328;
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; Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;
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; QY 112 TCCTTTTCTTTTTCAGTCACCGTCGTCGAC 145
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;
; RESULT 4
; US-09-620-925-2
; Sequence 2, Application US/09620925
; Patent No. 6468986
; GENERAL INFORMATION:
; APPLICANT: Zuckermann et al.
; TITLE OF INVENTION: Compositions and Methods for
; Polynucleotide Delivery
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
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; APPLICATION NUMBER: US/09/620,925
; FILING DATE: 21-Jul-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/910,647
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Fujita, Sharon M.
; REGISTRATION NUMBER: 38,459
; REFERENCE/DOCKET NUMBER: 1218.002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 923-2706
; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4328 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
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; US-09-620-925-2
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; Query Match 54.9%; Score 79.6; DB 4; Length 4328;
; Best Local Similarity 90.4%; Pred. No. 1.2e-16;
; Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;
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; QY 52 CTCGTTGCTGCGCGCGCCACACAGACATAATCGCTGACACACTGACAGACTGTTTCCTT 111
; DB 1555 CTCGTTGCTGCGCGCGCCACACAGACATAATAGCTGACAGACTAACAGACTGTTTCCTT 1614
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Qy 112 TCCTTTTTCAGTCACGTCGTCGAC 145  
Db 1615 TCCATGGGTCTTTCTGCAGTCACCGTCGTCGAC 1648

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; Sequence 1, Application US/09620260  
; Patent No. 6569450  
; GENERAL INFORMATION:  
; APPLICANT: Ronald Zuckermann et al.  
; TITLE OF INVENTION: Lipid-Conjugated Polyamide Compounds and Related Compositions and Methods Thereof  
; NUMBER OF SEQUENCES: 1  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Chiron Corporation  
; STREET: 4560 Horton Street  
; CITY: Emeryville  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 94608-2916  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
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; APPLICATION NUMBER: US/09/620,260  
; FILING DATE: 09-Oct-2001  
; CLASSIFICATION: <Unknown>  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fujita, Sharon M.  
; REGISTRATION NUMBER: 38,459  
; REFERENCE/DOCKET NUMBER: 1387.002  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (510) 923-2706  
; TELEFAX: (510) 655-3542  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 4328 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
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US-09-620-260-1

Query Match 54.9%; Score 79.6; DB 4; Length 4328;  
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Qy 112 TCCTTTTTCAGTCACGTCGTCGAC 145  
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; Patent No. 6572881  
; GENERAL INFORMATION:  
; APPLICANT: Ronald Zuckermann et al.  
; TITLE OF INVENTION: Lipid-Conjugated Polyamide Compounds and Related Compositions and Methods Thereof  
; NUMBER OF SEQUENCES: 1  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Chiron Corporation  
; STREET: 4560 Horton Street  
; CITY: Emeryville

STATE: California  
COUNTRY: U.S.A.  
ZIP: 94608-2916  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/620,259  
FILING DATE: 03-Oct-2001  
CLASSIFICATION: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Fujita, Sharon M.  
REGISTRATION NUMBER: 38,459  
REFERENCE/DOCKET NUMBER: 1387.002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (510) 923-2706  
TELEFAX: (510) 655-3542  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 4328 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
US-09-620-259-1

Query Match 54.9%; Score 79.6; DB 4; Length 4328;  
Best Local Similarity 90.4%; Pred. No. 1.2e-16;  
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

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Db 1555 CTCGTTGTCGCGCGCCGACACATATCGCTGACACTGACAGACTGTTCTT 1614

Qy 112 TCCTTTTTCAGTCACGTCGTCGAC 145  
Db 1615 TCCATGGGTCTTTCTGCAGTCACCGTCGTCGAC 1648

RESULT 7  
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; Sequence 4, Application US/08910647  
; Patent No. 6251433  
; GENERAL INFORMATION:  
; APPLICANT: Zuckermann et al.  
; TITLE OF INVENTION: Compositions and Methods for  
; TITLE OF INVENTION: Polynucleotide Delivery  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Chiron Corporation  
; STREET: 4560 Horton Street  
; CITY: Emeryville  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 94608-2916  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/910,647  
; FILING DATE:  
; CLASSIFICATION: 514  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fujita, Sharon M.  
; REGISTRATION NUMBER: 38,459  
; REFERENCE/DOCKET NUMBER: 1218.002  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (510) 923-2706

```

; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4818 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-910-647-4

Query Match          54.9%; Score 79.6; DB 3; Length 4818;
Best Local Similarity 90.4%; Pred. No. 1.3e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 52 CTCGTTGCTGCGCGCGCCACACAGACATAATCGCTGACACACTGACAGACTGTTCTT 111
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RESULT 8
US-09-620-925-4
; Sequence 4, Application US/09620925
; Patent No. 6468986
; GENERAL INFORMATION:
; APPLICANT: Zuckermann et al.
; TITLE OF INVENTION: Compositions and Methods for
; Polynucleotide Delivery
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/620,925
; FILING DATE: 21-Jul-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/910,647
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Fujita, Sharon M.
; REGISTRATION NUMBER: 38,459
; REFERENCE/DOCKET NUMBER: 1218.002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 923-2706
; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4818 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-620-925-4

Query Match          54.9%; Score 79.6; DB 4; Length 4818;
Best Local Similarity 90.4%; Pred. No. 1.3e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 52 CTCGTTGCTGCGCGCGCCACACAGACATAATCGCTGACACACTGACAGACTGTTCTT 111
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DB 1618 TCCATGGGCTCTTTCTGCACTACCGTCGTCGAC 1651

RESULT 9
US-09-173-053-7
; Sequence 7, Application US/09173053
; Patent No. 6451769
; GENERAL INFORMATION:
; APPLICANT: HUEBNER, Robert C.
; APPLICANT: NORMAN, Jon A.
; APPLICANT: LIANG, Xiaowu
; APPLICANT: CARNER, Kristin R.
; APPLICANT: BARBOUR, Alan G.
; APPLICANT: LUKE, Catherine J.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ADMINISTERING BORRELIA DNA
; FILE REFERENCE: 454312-2440.1
; CURRENT APPLICATION NUMBER: US/09/173,053
; CURRENT FILING DATE: 1998-10-15
; PRIOR APPLICATION NUMBER: 08/663,998
; PRIOR FILING DATE: 1996-06-14
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 4915
; TYPE: DNA
; ORGANISM: Borrelia burgdorferi
US-09-173-053-7

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Best Local Similarity 90.4%; Pred. No. 1.3e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

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QY 112 TCCTTTTTTTTTTTTGAGTCACCGTCGTCGAC 145
DB 1846 TCCATGGGCTCTTTCTGCACTACCGTCGTCGAC 1879

RESULT 10
US-08-345-913-1
; Sequence 1, Application US/08345913
; Patent No. 5641665
; GENERAL INFORMATION:
; APPLICANT: Hobart, Peter
; APPLICANT: Parker, Suzanne
; APPLICANT: Margalith, Michal
; APPLICANT: Khatibi, Shirin
; TITLE OF INVENTION: PLASMIDS SUITABLE FOR IL-2 EXPRESSION
; NUMBER OF SEQUENCES: 1
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe, Martens, Olson and Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: CA
; COUNTRY: USA
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/345,913
; FILING DATE:
; CLASSIFICATION: 435
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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Ways Vensko, Nancy
; REGISTRATION NUMBER: 36,298
; REFERENCE/DOCKET NUMBER: VICAL 043A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-235-8550
; TELEFAX: 619-235-0176
; TELEX:
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4928 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE:
; ORIGINAL SOURCE:
; FEATURE:
; NAME/KEY: Coding Sequence
; LOCATION: 1689..2159
; OTHER INFORMATION:
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US-08-345-913-1
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Best Local Similarity 90.4%; Pred. No. 1.3e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

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Qy 112 TCCTTTTCTTTTTCAGTCACGTCGTCGAC 145
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Query Match 54.9%; Score 79.6; DB 3; Length 4928;
Best Local Similarity 90.4%; Pred. No. 1.3e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 52 CTCGTTGCTGCGCGCGCCACGACATAATCGCTGACACACTGACAGACTGTTTCCTT 111
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Qy 112 TCCTTTTCTTTTTCAGTCACGTCGTCGAC 145
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Db 1600 TCCATGGGTCTTTTCTGCACTACCGTCGTCGAC 1633

RESULT 11
US-08-818-562-1
; Sequence 1, Application US/08818562
; Patent No. 6147055
; GENERAL INFORMATION:
; APPLICANT: Hobart, Peter M.
; APPLICANT: Margalith, Michal
; APPLICANT: Parker, Suzanne E.
; APPLICANT: Khatibi, Shirin
; TITLE OF INVENTION: Plasmids Suitable for IL-2 Expression
; FILE REFERENCE: 1530.0080001
; CURRENT APPLICATION NUMBER: US/08/818,562
; CURRENT FILING DATE: 1997-03-14
; EARLIER APPLICATION NUMBER: US 08/345,913
; EARLIER FILING DATE: 1994-11-28
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 4928
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1689)..(2159)
US-08-818-562-1
Query Match 54.9%; Score 79.6; DB 3; Length 4928;
Best Local Similarity 90.4%; Pred. No. 1.3e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 52 CTCGTTGCTGCGCGCGCCACGACATAATCGCTGACACACTGACAGACTGTTTCCTT 111
|||||
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Qy 112 TCCTTTTCTTTTTCAGTCACGTCGTCGAC 145
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Db 1600 TCCATGGGTCTTTTCTGCACTACCGTCGTCGAC 1633

RESULT 12
US-09-628-445-1
; Sequence 1, Application US/09628445
; Patent No. 6399588
; GENERAL INFORMATION:
; APPLICANT: Hobart, Peter M.
; APPLICANT: Margalith, Michal
; APPLICANT: Parker, Suzanne E.
; APPLICANT: Khatibi, Shirin
; TITLE OF INVENTION: Cancer Treatment Utilizing Plasmids Suitable for IL-2 Expression
; FILE REFERENCE: 1530.0080002
; CURRENT APPLICATION NUMBER: US/09/628,445
; CURRENT FILING DATE: 2000-07-28
; PRIOR APPLICATION NUMBER: US 08/818,562
; PRIOR FILING DATE: 1997-03-14
; PRIOR APPLICATION NUMBER: US 08/345,913
; PRIOR FILING DATE: 1994-11-28
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 4928
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1689)..(2159)
US-09-628-445-1
Query Match 54.9%; Score 79.6; DB 3; Length 4928;
Best Local Similarity 90.4%; Pred. No. 1.3e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 52 CTCGTTGCTGCGCGCGCCACGACATAATCGCTGACACACTGACAGACTGTTTCCTT 111
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Db 1600 TCCATGGGTCTTTTCTGCACTACCGTCGTCGAC 1633

RESULT 13
US-08-910-647-3
; Sequence 3, Application US/08910647
; Patent No. 6251433
; GENERAL INFORMATION:
; APPLICANT: Zuckermann et al.
; TITLE OF INVENTION: Compositions and Methods for
; TITLE OF INVENTION: Polynucleotide Delivery
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/910,647
; FILING DATE:
; CLASSIFICATION: 514
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RESULT 12
US-09-628-445-1
; Sequence 1, Application US/09628445
; Patent No. 6399588
; GENERAL INFORMATION:
; APPLICANT: Hobart, Peter M.
; APPLICANT: Margalith, Michal
; APPLICANT: Parker, Suzanne E.
; APPLICANT: Khatibi, Shirin
; TITLE OF INVENTION: Cancer Treatment Utilizing Plasmids Suitable for IL-2 Expression
; FILE REFERENCE: 1530.0080002
; CURRENT APPLICATION NUMBER: US/09/628,445
; CURRENT FILING DATE: 2000-07-28
; PRIOR APPLICATION NUMBER: US 08/818,562
; PRIOR FILING DATE: 1997-03-14
; PRIOR APPLICATION NUMBER: US 08/345,913
; PRIOR FILING DATE: 1994-11-28
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 4928
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1689)..(2159)
US-09-628-445-1
Query Match 54.9%; Score 79.6; DB 3; Length 4928;
Best Local Similarity 90.4%; Pred. No. 1.3e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

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RESULT 13
US-08-910-647-3
; Sequence 3, Application US/08910647
; Patent No. 6251433
; GENERAL INFORMATION:
; APPLICANT: Zuckermann et al.
; TITLE OF INVENTION: Compositions and Methods for
; TITLE OF INVENTION: Polynucleotide Delivery
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/910,647
; FILING DATE:
; CLASSIFICATION: 514
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; ATTORNEY/AGENT INFORMATION:
; NAME: Fujita, Sharon M.
; REGISTRATION NUMBER: 38,459
; REFERENCE/DOCKET NUMBER: 1218.002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 923-2706
; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5107 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-910-647-3

Query Match 54.9%; Score 79.6; DB 3; Length 5107;
Best Local Similarity 90.4%; Pred. No. 1.3e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

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Qy 112 TCCTTTTTTTTTTTTTTTCAGTCACCGTCGTCGAC 145
Db 1618 TCATGGGTCTTTTCTGCACTCACCGTCGTCGAC 1651

RESULT 15
US-09-628-730-51
; Sequence 51, Application US/09628730
; Patent No. 6759393
; GENERAL INFORMATION:
; APPLICANT: Morsey, Mohamad
; TITLE OF INVENTION: GROWTH HORMONE AND GROWTH HORMONE RELEASING HORMONE
; TITLE OF INVENTION: COMPOSITIONS
; FILE REFERENCE: PC10525B
; CURRENT APPLICATION NUMBER: US/09/628,730
; CURRENT FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 51
; LENGTH: 5108
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
; OTHER INFORMATION: pGHRH1-29WTCMV construct
US-09-628-730-51

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Best Local Similarity 90.4%; Pred. No. 1.3e-16;
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; ATTORNEY/AGENT INFORMATION:
; NAME: Fujita, Sharon M.
; REGISTRATION NUMBER: 38,459
; REFERENCE/DOCKET NUMBER: 1218.002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 923-2706
; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5107 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-09-620-925-3

Query Match 54.9%; Score 79.6; DB 3; Length 5107;
Best Local Similarity 90.4%; Pred. No. 1.3e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

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Db 1618 TCATGGGTCTTTTCTGCACTCACCGTCGTCGAC 1651

RESULT 14
US-09-620-925-3
; Sequence 3, Application US/09620925
; Patent No. 6468986
; GENERAL INFORMATION:
; APPLICANT: Zuckermann et al.
; TITLE OF INVENTION: Compositions and Methods for
; POLYNUCLEOTIDE DELIVERY
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/620,925
; FILING DATE: 21-Jul-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/910,647
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Fujita, Sharon M.
; REGISTRATION NUMBER: 38,459
; REFERENCE/DOCKET NUMBER: 1218.002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 923-2706
; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5107 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-620-925-3
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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

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Perfect score: 145  
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Post-processing: Minimum Match 0%

Maximum Match 100%

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- 21: /cgn2\_6/ptodata/2/pubpna/US10\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	79.6	54.9	4328	15	US-10-278-751-2
3	79.6	54.9	4328	16	US-10-445-642-1
4	79.6	54.9	4818	15	US-10-278-751-4
5	79.6	54.9	4928	15	US-10-127-683-1
6	79.6	54.9	5107	15	US-10-278-751-3
7	79.6	54.9	5108	17	US-10-796-486-51
8	79.6	54.9	5108	17	US-10-796-486-52
9	79.6	54.9	5111	17	US-10-796-486-55
10	79.6	54.9	5185	17	US-10-796-486-47
11	79.6	54.9	5188	17	US-10-796-486-59
12	79.6	54.9	5254	17	US-10-796-486-60

13	79.6	54.9	5549	16	US-10-359-120-80	Sequence 80, Appl
14	79.6	54.9	5549	16	US-10-359-120-81	Sequence 81, Appl
15	79.6	54.9	5549	16	US-10-359-120-82	Sequence 82, Appl
16	79.6	54.9	5549	16	US-10-359-120-83	Sequence 83, Appl
17	79.6	54.9	5610	13	US-10-090-983-2	Sequence 2, Appl
18	79.6	54.9	5742	17	US-10-688-299-47	Sequence 47, Appl
19	79.6	54.9	5974	13	US-10-090-983-8	Sequence 8, Appl
20	79.6	54.9	6438	16	US-10-359-120-157	Sequence 157, Appl
21	79.6	54.9	6460	16	US-10-359-120-34	Sequence 34, Appl
22	79.6	54.9	6466	16	US-10-359-120-130	Sequence 130, Appl
23	79.6	54.9	6473	16	US-10-359-120-100	Sequence 100, Appl
24	79.6	54.9	6486	16	US-10-359-120-158	Sequence 158, Appl
25	79.6	54.9	6505	16	US-10-359-120-15	Sequence 15, Appl
26	79.6	54.9	6505	16	US-10-359-120-16	Sequence 16, Appl
27	79.6	54.9	6505	16	US-10-359-120-129	Sequence 129, Appl
28	79.6	54.9	6514	13	US-10-090-983-1	Sequence 1, Appl
29	79.6	54.9	6526	16	US-10-359-120-137	Sequence 137, Appl
30	79.6	54.9	6532	16	US-10-359-120-69	Sequence 69, Appl
31	79.6	54.9	6536	16	US-10-359-120-107	Sequence 107, Appl
32	79.6	54.9	6538	16	US-10-359-120-30	Sequence 30, Appl
33	79.6	54.9	6538	16	US-10-359-120-33	Sequence 33, Appl
34	79.6	54.9	6538	16	US-10-359-120-145	Sequence 145, Appl
35	79.6	54.9	6541	16	US-10-359-120-31	Sequence 31, Appl
36	79.6	54.9	6542	16	US-10-359-120-99	Sequence 99, Appl
37	79.6	54.9	6545	16	US-10-359-120-115	Sequence 115, Appl
38	79.6	54.9	6547	16	US-10-359-120-131	Sequence 131, Appl
39	79.6	54.9	6547	16	US-10-359-120-155	Sequence 155, Appl
40	79.6	54.9	6554	16	US-10-359-120-101	Sequence 101, Appl
41	79.6	54.9	6565	16	US-10-359-120-136	Sequence 136, Appl
42	79.6	54.9	6577	16	US-10-359-120-32	Sequence 32, Appl
43	79.6	54.9	6577	16	US-10-359-120-50	Sequence 50, Appl
44	79.6	54.9	6577	16	US-10-359-120-51	Sequence 51, Appl
45	79.6	54.9	6577	16	US-10-359-120-144	Sequence 144, Appl

ALIGNMENTS

RESULT 1  
US-10-387-252-3  
; Sequence 3, Application US/10387252  
; Publication No. US20040047847A1  
; GENERAL INFORMATION:  
; APPLICANT: He, Yukai  
; APPLICANT: Huang, Leaf  
; TITLE OF INVENTION: Inhibition of Human Squamous Cell Carcinoma Growth In Vivo by Epidermal Growth Factor Receptor Antisense RNA  
; TITLE OF INVENTION: Transcribed From a Pol III Promoter  
; FILE REFERENCE: HeGrandishuang  
; CURRENT APPLICATION NUMBER: US/10/387,252  
; PRIOR FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: US/09/595,863B  
; PRIOR FILING DATE: 2000-06-16  
; PRIOR APPLICATION NUMBER: 60/140,136  
; PRIOR FILING DATE: 1999-06-18  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: Microsoft Word 97 SR-2  
; SEQ ID NO 3  
; LENGTH: 3982  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Plasmid pNGVL1  
US-10-387-252-3

Query Match	54.9%	Score	79.6	DB	16	Length	3982
Best Local Similarity	90.4%	Pred. No.	4.8e-16				
Matches	85	Conservative	0	Mismatches	9	Indels	0
Gaps	0						
QY	52	CTCGTTGCTCCGCGCGCCACAGACATAATCGCTGACACTGACACTGACACTGTTCTT	111				
DB	987	CTCGTTGCTCCGCGCGCCACAGACATAATAGCTGACACTGACACTGTTCTT	1046				





```
;
; TELEPHONE: (510) 923-2706
; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4818 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-278-751-4

Query Match 54.9%; Score 79.6; DB 15; Length 4818;
Best Local Similarity 90.4%; Pred. No. 5.1e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 52 CTCGTTGTCGCGCGCGCCACGACATATCGCTGACACTGACAGACTGTTCTT 111
Db 1558 CTCGTTGTCGCGCGCGCCACGACATATAGCTGACAGACTAAGACTGTTCTT 1617

Qy 112 TCCCTTTTTTTTTTTTTCAGTCACCGTCGTCGAC 145
Db 1618 TCCATGGGTCTTTTCTGCACTCACCGTCGTCGAC 1651

RESULT 5
US-10-127-683-1
; Sequence 1, Application US/10127683
; Publication No. US20030203863A1
; GENERAL INFORMATION:
; APPLICANT: Hobart, Peter M.
; APPLICANT: Margalith, Michal
; APPLICANT: Parker, Suzanne E.
; APPLICANT: Khatibi, Shirin
; TITLE OF INVENTION: Plasmids Suitable for IL-2 Expression
; FILE REFERENCE: 1530.008003
; CURRENT APPLICATION NUMBER: US/10/127,683
; CURRENT FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US 09/628,445
; PRIOR FILING DATE: 2000-07-28
; PRIOR APPLICATION NUMBER: US 08/818,562
; PRIOR FILING DATE: 1997-03-14
; PRIOR APPLICATION NUMBER: US 08/345,913
; PRIOR FILING DATE: 1994-11-28
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 4928
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1689)..(2159)
US-10-127-683-1

Query Match 54.9%; Score 79.6; DB 15; Length 4928;
Best Local Similarity 90.4%; Pred. No. 5.1e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 52 CTCGTTGTCGCGCGCGCCACGACATATCGCTGACACTGACAGACTGTTCTT 111
Db 1540 CTCGTTGTCGCGCGCGCCACGACATATAGCTGACAGACTAAGACTGTTCTT 1599

Qy 112 TCCCTTTTTTTTTTTTTCAGTCACCGTCGTCGAC 145
Db 1600 TCCATGGGTCTTTTCTGCACTCACCGTCGTCGAC 1633

RESULT 6
US-10-278-751-3
; Sequence 3, Application US/10278751
; Publication No. US20030185890A1
; GENERAL INFORMATION:
; APPLICANT: Zuckermann et al.
; TITLE OF INVENTION: Compositions and Methods for Delivery
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/278,751
; FILING DATE: 22-Jan-2003
; CLASSIFICATION: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Fujita, Sharon M.
; REGISTRATION NUMBER: 38,459
; REFERENCE/DOCKET NUMBER: 1218.002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 923-2706
; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5107 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-10-278-751-3

Query Match 54.9%; Score 79.6; DB 15; Length 5107;
Best Local Similarity 90.4%; Pred. No. 5.1e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 52 CTCGTTGTCGCGCGCGCCACGACATATCGCTGACACTGACAGACTGTTCTT 111
Db 1558 CTCGTTGTCGCGCGCGCCACGACATATAGCTGACAGACTAAGACTGTTCTT 1617

Qy 112 TCCCTTTTTTTTTTTTTCAGTCACCGTCGTCGAC 145
Db 1618 TCCATGGGTCTTTTCTGCACTCACCGTCGTCGAC 1651

RESULT 7
US-10-796-486-51
; Sequence 51, Application US/10796486
; Publication No. US20040171574A1
; GENERAL INFORMATION:
; APPLICANT: Morsey, Mohamad
; TITLE OF INVENTION: GROWTH HORMONE AND GROWTH HORMONE RELEASING HORMONE
; FILE REFERENCE: PC10525B
; CURRENT APPLICATION NUMBER: US/10/796,486
; CURRENT FILING DATE: 2004-03-08
; PRIOR APPLICATION NUMBER: US/09/628,730
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 51
; LENGTH: 5108
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
; OTHER INFORMATION: pGHRH1-29WTCMV construct
US-10-796-486-51
```

Polynucleotide

Query Match 54.9%; Score 79.6; DB 17; Length 5108;  
Best Local Similarity 90.4%; Pred. No. 5.1e-16;  
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;  
Qy 52 CTCGTTGCTGCGCGCGCCACACAGACATAATCGCTGACACACTGACAGACTGTTCTTT 111  
Db 4767 CTCGTTGCTGCGCGCGCCACACAGACATAATAGCTGACAGACTAACAGACTGTTCTTT 4826  
Qy 112 TCCTTTTTTTTTTTTTCAGTCACCGTCGTCGAC 145  
Db 4827 TCCATGGGTCTTTTCTGCAGTCACCGTCGTCGAC 4860

RESULT 8  
US-10-796-486-52  
; Sequence 52, Application US/10796486  
; Publication No. US20040171574A1  
; GENERAL INFORMATION:  
; APPLICANT: Morsey, Mohamad  
; TITLE OF INVENTION: GROWTH HORMONE AND GROWTH HORMONE RELEASING HORMONE  
; FILE REFERENCE: PC10525B  
; CURRENT APPLICATION NUMBER: US/10/796,486  
; PRIOR FILING DATE: 2004-03-08  
; PRIOR APPLICATION NUMBER: US/09/628,730  
; PRIOR FILING DATE: 2000-07-28  
; NUMBER OF SEQ ID NOS: 67  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 52  
; LENGTH: 5108  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:  
; OTHER INFORMATION: pGHRH1-29YTCMV construct  
US-10-796-486-52

Query Match 54.9%; Score 79.6; DB 17; Length 5108;  
Best Local Similarity 90.4%; Pred. No. 5.1e-16;  
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;  
Qy 52 CTCGTTGCTGCGCGCGCCACACAGACATAATCGCTGACACACTGACAGACTGTTCTTT 111  
Db 4767 CTCGTTGCTGCGCGCGCCACACAGACATAATAGCTGACAGACTAACAGACTGTTCTTT 4826  
Qy 112 TCCTTTTTTTTTTTTTCAGTCACCGTCGTCGAC 145  
Db 4827 TCCATGGGTCTTTTCTGCAGTCACCGTCGTCGAC 4860

RESULT 9  
US-10-796-486-55  
; Sequence 55, Application US/10796486  
; Publication No. US20040171574A1  
; GENERAL INFORMATION:  
; APPLICANT: Morsey, Mohamad  
; TITLE OF INVENTION: GROWTH HORMONE AND GROWTH HORMONE RELEASING HORMONE  
; FILE REFERENCE: PC10525B  
; CURRENT APPLICATION NUMBER: US/10/796,486  
; PRIOR FILING DATE: 2004-03-08  
; PRIOR APPLICATION NUMBER: US/09/628,730  
; PRIOR FILING DATE: 2000-07-28  
; NUMBER OF SEQ ID NOS: 67  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 55  
; LENGTH: 5111  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:  
; OTHER INFORMATION: pGHRH1-29Yalal522CMV construct

US-10-796-486-55

Query Match 54.9%; Score 79.6; DB 17; Length 5111;  
Best Local Similarity 90.4%; Pred. No. 5.1e-16;  
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;  
Qy 52 CTCGTTGCTGCGCGCGCCACACAGACATAATCGCTGACACACTGACAGACTGTTCTTT 111  
Db 4767 CTCGTTGCTGCGCGCGCCACACAGACATAATAGCTGACAGACTAACAGACTGTTCTTT 4826  
Qy 112 TCCTTTTTTTTTTTTTCAGTCACCGTCGTCGAC 145  
Db 4827 TCCATGGGTCTTTTCTGCAGTCACCGTCGTCGAC 4860

RESULT 10  
US-10-796-486-47  
; Sequence 47, Application US/10796486  
; Publication No. US20040171574A1  
; GENERAL INFORMATION:  
; APPLICANT: Morsey, Mohamad  
; TITLE OF INVENTION: GROWTH HORMONE AND GROWTH HORMONE RELEASING HORMONE  
; FILE REFERENCE: PC10525B  
; CURRENT APPLICATION NUMBER: US/10/796,486  
; PRIOR FILING DATE: 2004-03-08  
; PRIOR APPLICATION NUMBER: US/09/628,730  
; PRIOR FILING DATE: 2000-07-28  
; NUMBER OF SEQ ID NOS: 67  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 47  
; LENGTH: 5185  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: pGHRH-4  
; OTHER INFORMATION: construct  
US-10-796-486-47

Query Match 54.9%; Score 79.6; DB 17; Length 5185;  
Best Local Similarity 90.4%; Pred. No. 5.2e-16;  
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;  
Qy 52 CTCGTTGCTGCGCGCGCCACACAGACATAATCGCTGACACACTGACAGACTGTTCTTT 111  
Db 4767 CTCGTTGCTGCGCGCGCCACACAGACATAATAGCTGACAGACTAACAGACTGTTCTTT 4826  
Qy 112 TCCTTTTTTTTTTTTTCAGTCACCGTCGTCGAC 145  
Db 4827 TCCATGGGTCTTTTCTGCAGTCACCGTCGTCGAC 4860

RESULT 11  
US-10-796-486-59  
; Sequence 59, Application US/10796486  
; Publication No. US20040171574A1  
; GENERAL INFORMATION:  
; APPLICANT: Morsey, Mohamad  
; TITLE OF INVENTION: GROWTH HORMONE AND GROWTH HORMONE RELEASING HORMONE  
; FILE REFERENCE: PC10525B  
; CURRENT APPLICATION NUMBER: US/10/796,486  
; PRIOR FILING DATE: 2004-03-08  
; PRIOR APPLICATION NUMBER: US/09/628,730  
; PRIOR FILING DATE: 2000-07-28  
; NUMBER OF SEQ ID NOS: 67  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 59  
; LENGTH: 5188  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:

```
; OTHER INFORMATION: pGHRH1-44YTCMV construct
US-10-796-486-59

Query Match      54.9%; Score 79.6; DB 17; Length 5188;
Best Local Similarity 90.4%; Pred. No. 5.2e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 52 CTCGTTGCTGCGCGCGCCGACACACATAATCGCTGACACACTGACAGACTGTTCCCTT 111
Db 4767 CTCGTTGCTGCGCGCGCCGACACACATAATAGCTGACAGACTAACAGACTGTTCCCTT 4826

QY 112 TCCTTTTTTTTTTTTTTTCAGTCAACCGTCGTCGAC 145
Db 4827 TCCATGGGTCTTTTCTGCAAGTCACCGTCGTCGAC 4860

RESULT 12
US-10-796-486-60
; Sequence 60, Application US/10796486
; Publication No. US20040171574A1
; GENERAL INFORMATION:
; APPLICANT: Morsey, Mohamad
; TITLE OF INVENTION: GROWTH HORMONE AND GROWTH HORMONE RELEASING HORMONE
; FILE REFERENCE: PC10525B
; CURRENT APPLICATION NUMBER: US/10/796,486
; CURRENT FILING DATE: 2004-03-08
; PRIOR APPLICATION NUMBER: US/09/628,730
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 60
; LENGTH: 5254
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
; OTHER INFORMATION: pGHRH1-44WGHpep construct
US-10-796-486-60

Query Match      54.9%; Score 79.6; DB 17; Length 5254;
Best Local Similarity 90.4%; Pred. No. 5.2e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 52 CTCGTTGCTGCGCGCGCCGACACACATAATCGCTGACACACTGACAGACTGTTCCCTT 111
Db 4767 CTCGTTGCTGCGCGCGCCGACACACATAATAGCTGACAGACTAACAGACTGTTCCCTT 4826

QY 112 TCCTTTTTTTTTTTTTTTCAGTCAACCGTCGTCGAC 145
Db 4827 TCCATGGGTCTTTTCTGCAAGTCACCGTCGTCGAC 4860

RESULT 13
US-10-359-120-80
; Sequence 80, Application US/10359120
; Publication No. US20040033487A1
; GENERAL INFORMATION:
; APPLICANT: NABLE, Gary J.
; APPLICANT: CHAKRABARTI, Bimal K.
; APPLICANT: HUANG, Yue
; TITLE OF INVENTION: MODIFICATIONS OF HIV Env, Gag, AND Pol
; FILE REFERENCE: NIH206.001C1
; CURRENT APPLICATION NUMBER: US/10/359,120
; CURRENT FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: PCT/US01/25721
; PRIOR FILING DATE: 2001-08-14
; PRIOR APPLICATION NUMBER: US 60/279,257
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: US 60/252,115
; PRIOR FILING DATE: 2000-11-14
; PRIOR APPLICATION NUMBER: US 60/225,097
; PRIOR FILING DATE: 2000-08-14
; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 81
; LENGTH: 5549
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: plasmid pVR1012x/s containing HIV genes
US-10-359-120-81

Query Match      54.9%; Score 79.6; DB 16; Length 5549;
Best Local Similarity 90.4%; Pred. No. 5.3e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 52 CTCGTTGCTGCGCGCGCCGACACACATAATCGCTGACACACTGACAGACTGTTCCCTT 111
Db 1786 CTCGTTGCTGCGCGCGCCGACACACATAATAGCTGACAGACTAACAGACTGTTCCCTT 1845

QY 112 TCCTTTTTTTTTTTTTTTCAGTCAACCGTCGTCGAC 145
Db 1846 TCCATGGGTCTTTTCTGCAAGTCACCGTCGTCGAC 1879

RESULT 14
US-10-359-120-81
; Sequence 81, Application US/10359120
; Publication No. US20040033487A1
; GENERAL INFORMATION:
; APPLICANT: NABLE, Gary J.
; APPLICANT: CHAKRABARTI, Bimal K.
; APPLICANT: HUANG, Yue
; TITLE OF INVENTION: MODIFICATIONS OF HIV Env, Gag, AND Pol
; FILE REFERENCE: NIH206.001C1
; CURRENT APPLICATION NUMBER: US/10/359,120
; CURRENT FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: PCT/US01/25721
; PRIOR FILING DATE: 2001-08-14
; PRIOR APPLICATION NUMBER: US 60/279,257
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: US 60/252,115
; PRIOR FILING DATE: 2000-11-14
; PRIOR APPLICATION NUMBER: US 60/225,097
; PRIOR FILING DATE: 2000-08-14
; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 81
; LENGTH: 5549
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: plasmid pVR1012x/s containing HIV genes
US-10-359-120-81

Query Match      54.9%; Score 79.6; DB 16; Length 5549;
Best Local Similarity 90.4%; Pred. No. 5.3e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 52 CTCGTTGCTGCGCGCGCCGACACACATAATCGCTGACACACTGACAGACTGTTCCCTT 111
Db 1786 CTCGTTGCTGCGCGCGCCGACACACATAATAGCTGACAGACTAACAGACTGTTCCCTT 1845

QY 112 TCCTTTTTTTTTTTTTTTCAGTCAACCGTCGTCGAC 145
Db 1846 TCCATGGGTCTTTTCTGCAAGTCACCGTCGTCGAC 1879

RESULT 15
US-10-359-120-82
; Sequence 82, Application US/10359120
; Publication No. US20040033487A1
; GENERAL INFORMATION:
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; OTHER INFORMATION: pGHRH1-44YTCMV construct
US-10-796-486-59

Query Match      54.9%; Score 79.6; DB 17; Length 5188;
Best Local Similarity 90.4%; Pred. No. 5.2e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 52 CTCGTTGCTGCGCGCGCCGACACACATAATCGCTGACACACTGACAGACTGTTCCCTT 111
Db 4767 CTCGTTGCTGCGCGCGCCGACACACATAATAGCTGACAGACTAACAGACTGTTCCCTT 4826

QY 112 TCCTTTTTTTTTTTTTTTCAGTCAACCGTCGTCGAC 145
Db 4827 TCCATGGGTCTTTTCTGCAAGTCACCGTCGTCGAC 4860

RESULT 12
US-10-796-486-60
; Sequence 60, Application US/10796486
; Publication No. US20040171574A1
; GENERAL INFORMATION:
; APPLICANT: Morsey, Mohamad
; TITLE OF INVENTION: GROWTH HORMONE AND GROWTH HORMONE RELEASING HORMONE
; FILE REFERENCE: PC10525B
; CURRENT APPLICATION NUMBER: US/10/796,486
; CURRENT FILING DATE: 2004-03-08
; PRIOR APPLICATION NUMBER: US/09/628,730
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 60
; LENGTH: 5254
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
; OTHER INFORMATION: pGHRH1-44WGHpep construct
US-10-796-486-60

Query Match      54.9%; Score 79.6; DB 17; Length 5254;
Best Local Similarity 90.4%; Pred. No. 5.2e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 52 CTCGTTGCTGCGCGCGCCGACACACATAATCGCTGACACACTGACAGACTGTTCCCTT 111
Db 4767 CTCGTTGCTGCGCGCGCCGACACACATAATAGCTGACAGACTAACAGACTGTTCCCTT 4826

QY 112 TCCTTTTTTTTTTTTTTTCAGTCAACCGTCGTCGAC 145
Db 4827 TCCATGGGTCTTTTCTGCAAGTCACCGTCGTCGAC 4860

RESULT 13
US-10-359-120-80
; Sequence 80, Application US/10359120
; Publication No. US20040033487A1
; GENERAL INFORMATION:
; APPLICANT: NABLE, Gary J.
; APPLICANT: CHAKRABARTI, Bimal K.
; APPLICANT: HUANG, Yue
; TITLE OF INVENTION: MODIFICATIONS OF HIV Env, Gag, AND Pol
; FILE REFERENCE: NIH206.001C1
; CURRENT APPLICATION NUMBER: US/10/359,120
; CURRENT FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: PCT/US01/25721
; PRIOR FILING DATE: 2001-08-14
; PRIOR APPLICATION NUMBER: US 60/279,257
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: US 60/252,115
; PRIOR FILING DATE: 2000-11-14
; PRIOR APPLICATION NUMBER: US 60/225,097
; PRIOR FILING DATE: 2000-08-14
; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 81
; LENGTH: 5549
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: plasmid pVR1012x/s containing HIV genes
US-10-359-120-81

Query Match      54.9%; Score 79.6; DB 16; Length 5549;
Best Local Similarity 90.4%; Pred. No. 5.3e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 52 CTCGTTGCTGCGCGCGCCGACACACATAATCGCTGACACACTGACAGACTGTTCCCTT 111
Db 1786 CTCGTTGCTGCGCGCGCCGACACACATAATAGCTGACAGACTAACAGACTGTTCCCTT 1845

QY 112 TCCTTTTTTTTTTTTTTTCAGTCAACCGTCGTCGAC 145
Db 1846 TCCATGGGTCTTTTCTGCAAGTCACCGTCGTCGAC 1879

RESULT 14
US-10-359-120-81
; Sequence 81, Application US/10359120
; Publication No. US20040033487A1
; GENERAL INFORMATION:
; APPLICANT: NABLE, Gary J.
; APPLICANT: CHAKRABARTI, Bimal K.
; APPLICANT: HUANG, Yue
; TITLE OF INVENTION: MODIFICATIONS OF HIV Env, Gag, AND Pol
; FILE REFERENCE: NIH206.001C1
; CURRENT APPLICATION NUMBER: US/10/359,120
; CURRENT FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: PCT/US01/25721
; PRIOR FILING DATE: 2001-08-14
; PRIOR APPLICATION NUMBER: US 60/279,257
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: US 60/252,115
; PRIOR FILING DATE: 2000-11-14
; PRIOR APPLICATION NUMBER: US 60/225,097
; PRIOR FILING DATE: 2000-08-14
; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 81
; LENGTH: 5549
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: plasmid pVR1012x/s containing HIV genes
US-10-359-120-81

Query Match      54.9%; Score 79.6; DB 16; Length 5549;
Best Local Similarity 90.4%; Pred. No. 5.3e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 52 CTCGTTGCTGCGCGCGCCGACACACATAATCGCTGACACACTGACAGACTGTTCCCTT 111
Db 1786 CTCGTTGCTGCGCGCGCCGACACACATAATAGCTGACAGACTAACAGACTGTTCCCTT 1845

QY 112 TCCTTTTTTTTTTTTTTTCAGTCAACCGTCGTCGAC 145
Db 1846 TCCATGGGTCTTTTCTGCAAGTCACCGTCGTCGAC 1879

RESULT 15
US-10-359-120-82
; Sequence 82, Application US/10359120
; Publication No. US20040033487A1
; GENERAL INFORMATION:
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Tue Dec 21 15:52:08 2004

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; APPLICANT: NABLE, Gary J.
; APPLICANT: CHAKRABARTI, Bimal K.
; APPLICANT: HUANG, Yue
; TITLE OF INVENTION: MODIFICATIONS OF HIV Env, Gag, AND Pol
; TITLE OF INVENTION: ENHANCE IMMUNOGENICITY FOR GENETIC IMMUNIZATION
; FILE REFERENCE: NIH206.001C1
; CURRENT APPLICATION NUMBER: US/10/359,120
; CURRENT FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: PCT/US01/25721
; PRIOR FILING DATE: 2001-08-14
; PRIOR APPLICATION NUMBER: US 60/279,257
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: US 60/252,115
; PRIOR FILING DATE: 2000-11-14
; PRIOR APPLICATION NUMBER: US 60/225,097
; PRIOR FILING DATE: 2000-08-14
; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 82
; LENGTH: 5549
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: plasmid pVR1012x/s containing HIV genes
US-10-359-120-82
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Query Match          54.9%; Score 79,6; DB 16; Length 5549;
Best Local Similarity 90.4%; Pred. No. 5.3e-16;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY      52 CTCGTTGCTGCCGCGCGCCACACACATATCGCTGACACTGACAGACTGTTCCTT 111
        |||||
Db       1786 CTCGTTGCTGCCGCGCGCCACACACATATAGCTGACACTTAACAGACTGTTCCTT 1845

QY      112 TCCTTTTTCCTTTTTCCTTTTCCTTTTCCTTTTCCTTTTCCTTTTCCTTTTCCTTT 145
        |||||
Db       1846 TCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTT 1879
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Job time : 78.3579 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 20, 2004, 13:34:51 ; Search time 444.941 Seconds  
(without alignments)  
10348.284 Million cell updates/sec

Title: US-09-977-066A-1

Perfect score: 834

Sequence: 1 gtaagaccgctatagact.....ctgcagtcaccgtcgtcgac 834

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 4093002 seqs, 2760418825 residues

Total number of hits satisfying chosen parameters: 8186004

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

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Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:\*

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21: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	827.6	99.2	4328	15	US-10-278-751-2
2	827.6	99.2	4328	16	US-10-445-642-1
3	827.6	99.2	4818	15	US-10-278-751-4
4	827.6	99.2	5107	15	US-10-278-751-3
5	827.6	99.2	5610	13	US-10-090-983-2
6	827.6	99.2	5974	13	US-10-090-983-8
7	827.6	99.2	6514	13	US-10-090-983-1
8	827.6	99.2	7015	9	US-09-770-315-1
9	827.6	99.2	7096	13	US-10-090-983-3
10	827.6	99.2	9600	15	US-10-278-751-1
11	802.6	96.2	12745	18	US-10-781-142-8
12	802	96.2	2361	14	US-10-247-703-50

13	799.2	95.8	4622	9	US-09-846-091-11	Sequence 11, Appl
14	799.2	95.8	5089	10	US-09-993-307-2	Sequence 2, Appl
15	799.2	95.8	5089	10	US-09-993-307-5	Sequence 5, Appl
16	799.2	95.8	5488	10	US-09-993-307-3	Sequence 3, Appl
17	799.2	95.8	5488	10	US-09-993-307-6	Sequence 6, Appl
18	799.2	95.8	5500	10	US-09-993-307-1	Sequence 1, Appl
19	799.2	95.8	5500	10	US-09-993-307-4	Sequence 4, Appl
20	799.2	95.8	6050	9	US-09-491-974-4	Sequence 4, Appl
21	799.2	95.8	6050	16	US-10-394-388A-4	Sequence 4, Appl
22	799.2	95.8	8001	9	US-09-491-974-3	Sequence 3, Appl
23	799.2	95.8	8001	16	US-10-394-388A-3	Sequence 3, Appl
24	799.2	95.8	9918	9	US-09-798-675-5	Sequence 5, Appl
25	799.2	95.8	9918	17	US-10-093-953A-5	Sequence 5, Appl
26	791.2	94.9	824	15	US-10-223-507-56	Sequence 56, Appl
27	778.4	93.3	5108	17	US-10-796-486-51	Sequence 51, Appl
28	778.4	93.3	5108	17	US-10-796-486-52	Sequence 52, Appl
29	778.4	93.3	5111	17	US-10-796-486-55	Sequence 55, Appl
30	778.4	93.3	5185	17	US-10-796-486-47	Sequence 47, Appl
31	778.4	93.3	5188	17	US-10-796-486-59	Sequence 59, Appl
32	778.4	93.3	5254	17	US-10-796-486-60	Sequence 60, Appl
33	778.4	93.3	5549	16	US-10-359-120-80	Sequence 81, Appl
34	778.4	93.3	5549	16	US-10-359-120-81	Sequence 81, Appl
35	778.4	93.3	5549	16	US-10-359-120-82	Sequence 82, Appl
36	778.4	93.3	5549	16	US-10-359-120-83	Sequence 83, Appl
37	778.4	93.3	6438	16	US-10-359-120-157	Sequence 157, App
38	778.4	93.3	6460	16	US-10-359-120-34	Sequence 34, Appl
39	778.4	93.3	6466	16	US-10-359-120-130	Sequence 130, App
40	778.4	93.3	6473	16	US-10-359-120-100	Sequence 100, App
41	778.4	93.3	6486	16	US-10-359-120-158	Sequence 158, App
42	778.4	93.3	6505	16	US-10-359-120-15	Sequence 15, Appl
43	778.4	93.3	6505	16	US-10-359-120-16	Sequence 16, Appl
44	778.4	93.3	6505	16	US-10-359-120-129	Sequence 129, App
45	778.4	93.3	6526	16	US-10-359-120-137	Sequence 137, App

#### ALIGNMENTS

#### RESULT 1

US-10-278-751-2

; Sequence 2, Application US/10278751

; Publication No. US20030185890A1

; GENERAL INFORMATION:

; APPLICANT: Zuckermann et al.

; TITLE OF INVENTION: Compositions and Methods for

; Delivery

; NUMBER OF SEQUENCES: 4

; CORRESPONDENCE ADDRESS:

; ADDRESSER: Chiron Corporation

; STREET: 4560 Horton Street

; CITY: Emeryville

; STATE: California

; COUNTRY: U.S.A.

; ZIP: 94608-2916

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; APPLICATION NUMBER: US/10/278,751

; FILING DATE: 22-Jan-2003

; CLASSIFICATION: <Unknown>

; ATTORNEY/AGENT INFORMATION:

; NAME: Fujita, Sharon M.

; REGISTRATION NUMBER: 38,459

; REFERENCE/DOCKET NUMBER: 1218.002

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (510) 923-2706

; TELEFAX: (510) 655-3542

; INFORMATION FOR SEQ ID NO. 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 4328 base pairs

Polynucleotide

APPLICANT: Ronald Zuckermann et al.  
TITLE OF INVENTION: Lipid-Conjugated Polyamide Compounds and Related Compositions and Methods Thereof  
NUMBER OF SEQUENCES: 1  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Chiron Corporation  
STREET: 4560 Horton Street  
CITY: Emeryville  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 94608-2916  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/445,642  
FILING DATE: 27-May-2003  
CLASSIFICATION: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Fujita, Sharon M.  
REGISTRATION NUMBER: 38,459  
REFERENCE/DOCKET NUMBER: 1387.002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (510) 923-2706  
TELEFAX: (510) 655-3542  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 4328 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
US-10-445-642-1

Query Match 99.2%; Score 827.6; DB 15; Length 4328;  
Best Local Similarity 99.5%; Pred. No. 1e-267;  
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GTAAAGTACCGCCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGATGCTATAGT 60  
DB 815 GTAAGTACCGCCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGATGCTATAGT 874

QY 61 TTTTGGCTTTGGGCGCTATACACCCCGCTCTTATGCTATAGTATAGTATAGCTTAG 120  
DB 875 TTTTGGCTTTGGGCGCTATACACCCCGCTCTTATGCTATAGTATAGTATAGCTTAG 934

QY 121 CCTATAGTGTGGGCTTATGACCACTATTGACCACTCCCTCTTATGGTGACGATCTTTCC 180  
DB 935 CCTATAGTGTGGGCTTATGACCACTATTGACCACTCCCTCTTATGGTGACGATCTTTCC 994

QY 181 ATTAATAATCAATAACATGGCTCTTTGGCCAACTATCTCTATTTGGCTATATGCCAATAC 240  
DB 995 ATTAATAATCAATAACATGGCTCTTTGGCCAACTATCTCTATTTGGCTATATGCCAATAC 1054

QY 241 TCTGTCTTTCAGAGACTGACACGACTCTGTATTTTACAGAGATGGGCTCCATTTATTAT 300  
DB 1055 TCTGTCTTTCAGAGACTGACACGACTCTGTATTTTACAGAGATGGGCTCCATTTATTAT 1114

QY 301 TTACAAATTCACATATACAAACGCGCTCCCGTGCCCGAGTCTTTTATTAACATAG 360  
DB 1115 TTACAAATTCACATATACAAACGCGCTCCCGTGCCCGAGTCTTTTATTAACATAG 1174

QY 361 CGTGGGATCTCGGACATCTCGGGTACGCTTCCGACATGGCTCTTCTCGGTAGCGGC 420  
DB 1175 CGTGGGATCTCGGACATCTCGGGTACGCTTCCGACATGGCTCTTCTCGGTAGCGGC 1234

QY 421 GGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTATGGTCTCGGCGAGC 480  
DB 1235 GGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTATGGTCTCGGCGAGC 1294

QY 1 TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
US-10-278-751-2

Query Match 99.2%; Score 827.6; DB 15; Length 4328;  
Best Local Similarity 99.5%; Pred. No. 1e-267;  
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GTAAAGTACCGCCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGATGCTATAGT 60  
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QY 61 TTTTGGCTTTGGGCGCTATACACCCCGCTCTTATGCTATAGTATAGTATAGCTTAG 120  
DB 875 TTTTGGCTTTGGGCGCTATACACCCCGCTCTTATGCTATAGTATAGTATAGCTTAG 934

QY 121 CCTATAGTGTGGGCTTATGACCACTATTGACCACTCCCTCTTATGGTGACGATCTTTCC 180  
DB 935 CCTATAGTGTGGGCTTATGACCACTATTGACCACTCCCTCTTATGGTGACGATCTTTCC 994

QY 181 ATTAATAATCAATAACATGGCTCTTTGGCCAACTATCTCTATTTGGCTATATGCCAATAC 240  
DB 995 ATTAATAATCAATAACATGGCTCTTTGGCCAACTATCTCTATTTGGCTATATGCCAATAC 1054

QY 241 TCTGTCTTTCAGAGACTGACACGACTCTGTATTTTACAGAGATGGGCTCCATTTATTAT 300  
DB 1055 TCTGTCTTTCAGAGACTGACACGACTCTGTATTTTACAGAGATGGGCTCCATTTATTAT 1114

QY 301 TTACAAATTCACATATACAAACGCGCTCCCGTGCCCGAGTCTTTTATTAACATAG 360  
DB 1115 TTACAAATTCACATATACAAACGCGCTCCCGTGCCCGAGTCTTTTATTAACATAG 1174

QY 361 CGTGGGATCTCGGACATCTCGGGTACGCTTCCGACATGGCTCTTCTCGGTAGCGGC 420  
DB 1175 CGTGGGATCTCGGACATCTCGGGTACGCTTCCGACATGGCTCTTCTCGGTAGCGGC 1234

QY 421 GGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTATGGTCTCGGCGAGC 480  
DB 1235 GGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTATGGTCTCGGCGAGC 1294

QY 481 TCCTTTGCTCTTAACAGTGGAGCCAGACTTATAGGCACAGCAATGCCACACCACTAGT 540  
DB 1295 TCCTTTGCTCTTAACAGTGGAGCCAGACTTATAGGCACAGCAATGCCACCACTAGT 1354

QY 541 GTGCCGACAAAGCCGCTGGCGGTAGGTATGTCTGAAATGAGCTCGGAGATTGGGCT 600  
DB 1355 GTGCCGACAAAGCCGCTGGCGGTAGGTATGTCTGAAATGAGCTCGGAGATTGGGCT 1414

QY 601 GSCACCGTGACGACATGGAAGACTTAAAGGCAGCGGAGAGAAAGATGACGAGCTGAG 660  
DB 1415 GSCACCGTGACGACATGGAAGACTTAAAGGCAGCGGAGAGAAAGATGACGAGCTGAG 1474

QY 661 TTGTGTATTTCTGATAAGAGTCAAGGTAACCTCCCGTTGCGGTGCTTTAAACGGTGGAG 720  
DB 1475 TTGTGTATTTCTGATAAGAGTCAAGGTAACCTCCCGTTGCGGTGCTTTAAACGGTGGAG 1534

QY 721 GCAGTGTAGTCTGACGAGTACTCTGTCTGCGCGCGCCACCAAGACATATAGCTGAC 780  
DB 1535 GCAGTGTAGTCTGACGAGTACTCTGTCTGCGCGCGCCACCAAGACATATAGCTGAC 1594

QY 781 AGACTAACAGACTGTCTTCTTCCATGGGCTTTTCTGCAAGTCAACCGTCTGCGAC 834  
DB 1595 AGACTAACAGACTGTCTTCTTCCATGGGCTTTTCTGCAAGTCAACCGTCTGCGAC 1648

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; Sequence 1, Application US/10445642  
; Publication No. US20040018962A1  
; GENERAL INFORMATION:



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QY 541 GTCCGCGACAAGCCGCTGGCGGTAGGCTATGTCTGAAATGAGCTCGGAGATTGGGCT 600
Db 1355 GTCCGCGACAAGCCGCTGGCGGTAGGCTATGTCTGAAATGAGCTCGGAGATTGGGCT 1414
QY 601 CGCACCGTGAACGAGATGGAAGACTTAAAGCAGCGGCGAGAAAGATGCAAGCAGCTGAG 660
Db 1415 CGCACCTGGACGAGATGGAAGACTTAAAGCAGCGGCGAGAAAGATGCAAGCAGCTGAG 1474
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Db 1475 TTGTTGTAATTCGATAAGAGTCAAGAGTAACTCCCGTTGCGGTGCTTTAAACGGTGGAG 1534
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Db 1535 GCAGTGTAGTCTGAGCAGTACTCGTTGCTCGCGCGCGCCACAGACATAATAGCTGAC 1594
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RESULT 3
US-10-278-751-4
; Sequence 4, Application US/10278751
; Publication No. US20030185890A1
; GENERAL INFORMATION:
; APPLICANT: Zuckermann et al.
; TITLE OF INVENTION: Compositions and Methods for
; DELIVERY
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/278,751
; FILING DATE: 22-Jan-2003
; CLASSIFICATION: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Fujita, Sharon M.
; REGISTRATION NUMBER: 38,459
; REFERENCE/DOCKET NUMBER: 1218.002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 923-2706
; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4818 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-278-751-4
Query Match 99.2%; Score 827.6; DB 15; Length 4818;
Best Local Similarity 99.5%; Pred. No. 1.1e-267;
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 1 GTAAGTACCGCTATAGACTATAGGCACACCCCTTGGCTCTTATGATGCTATAGT 60
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Db 818 GTAAGTACCGCTATAGACTCTATAGGCACACCCCTTGGCTCTTATGATGCTATAGT 877
QY 61 TTTTGGCTTGGGGCCTATACACCCCGCTCTTATGCTATAGGTGATGATAGCTTAG 120
Db 878 TTTTGGCTTGGGGCCTATACACCCCGCTCTTATGCTATAGGTGATGATAGCTTAG 937
QY 121 CCTATAGGTGGGTATTGACCACTTATGACCACTCCCTATTTGGTGGAGTACTTTCC 180
Db 938 CCTATAGGTGGGTATTGACCACTTATGACCACTCCCTATTTGGTGGAGTACTTTCC 997
QY 181 ATTACTTAATCCATAAATGCTCTTTGGCCAACTATCTCTATTGGCTATATGCCAATAC 240
Db 998 ATTACTTAATCCATAAATGCTCTTTGGCCAACTATCTCTATTGGCTATATGCCAATAC 1057
QY 241 TCTGCTCTTCCAGAGTCAAGCACTCTGTATTTTTTACAGATGGGTTCATTTATAT 300
Db 1058 TCTGCTCTTCCAGAGTCAAGCACTCTGTATTTTTTACAGATGGGTTCATTTATAT 1117
QY 301 TTACAAATTCACATATACAAACGCGGTCCCGTGGCCGAGTTTATTAAACATAG 360
Db 1118 TTACAAATTCACATATACAAACGCGGTCCCGTGGCCGAGTTTATTAAACATAG 1177
QY 361 CGTGGGATCTCGACATCTCGGTACGTGTTCCGGACATGGGCTCTTCTCGGTAGCGGC 420
Db 1178 CGTGGGATCTCGACATCTCGGTACGTGTTCCGGACATGGGCTCTTCTCGGTAGCGGC 1237
QY 421 GGAGCTTCCACATCCGAGCCCTGGTCCCATGCCCTCCAGCGGCTCATGGTCTCGGCAGC 480
Db 1238 GGAGCTTCCACATCCGAGCCCTGGTCCCATGCCCTCCAGCGGCTCATGGTCTCGGCAGC 1297
QY 481 TCCTTGCTCTTAACAGTGGAGCCAGACTTAGGCACAGACAACTGCCACCACCACT 540
Db 1298 TCCTTGCTCTTAACAGTGGAGCCAGACTTAGGCACAGACAACTGCCACCACCACT 1357
QY 541 GTGCCGCAACAAGCCGCTGGCGGTAGGCTATGTCTGAAATCAGCTCGGAGATTGGGCT 600
Db 1358 GTGCCGCAACAAGCCGCTGGCGGTAGGCTATGTCTGAAATCAGCTCGGAGATTGGGCT 1417
QY 601 CGCACCGTCAACGAGATGAAGACTTAAAGCAGCGCGCAGAAAGATGCAAGCAGCTGAG 660
Db 1418 CGCACCTGGACGAGATGAAGACTTAAAGCAGCGCGCAGAAAGATGCAAGCAGCTGAG 1477
QY 661 TTGTTGTAATTCGATAAGAGTCAAGAGTAACTCCCGTTGCGGTGCTTTAAACGGTGGAG 720
Db 1478 TTGTTGTAATTCGATAAGAGTCAAGAGTAACTCCCGTTGCGGTGCTTTAAACGGTGGAG 1537
QY 721 GCAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGCCACAGACATAATAGCTGAC 780
Db 1538 GCAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGCCACAGACATAATAGCTGAC 1597
QY 781 AGACTAACAGACTGTTCCCTTTCCATGGGTCTTTTCTGCACTACCGTGGTGGAC 834
Db 1598 AGACTAACAGACTGTTCCCTTTCCATGGGTCTTTTCTGCACTACCGTGGTGGAC 1651

RESULT 4
US-10-278-751-3
; Sequence 3, Application US/10278751
; Publication No. US20030185890A1
; GENERAL INFORMATION:
; APPLICANT: Zuckermann et al.
; TITLE OF INVENTION: Compositions and Methods for
; DELIVERY
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; Polynucleotide
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COMPUTER: IBM PC compatible			1478			TTGTTGTTATTCTGATAAGAGTCAGAGGTAACCTCCCGTTGCGGTGCTGTTAAACGGTGGAGG	1537	
OPERATING SYSTEM: PC-DOS/MS-DOS			QY			721	GCAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGCGCCACACAGACATAATAGCTGAC	780
SOFTWARE: PatentIn Release #1.0, Version #1.30			Db			1538	GCAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGCGCCACACAGACATAATAGCTGAC	1597
CURRENT APPLICATION DATA:			QY			781	AGACTAAACAGACTGTTCTCTTTCCATGGGTCTTTTCTGCACTCACCGTCTGTCGAC	834
APPLICATION NUMBER: US/10/278,751			Db			1598	AGACTAAACAGACTGTTCTCTTTCCATGGGTCTTTTCTGCACTCACCGTCTGTCGAC	1651
FILING DATE: 22-Jan-2003			QY					
CLASSIFICATION: <Unknown>			Db					
ATTORNEY/AGENT INFORMATION:			QY					
NAME: Fujita, Sharon M.			Db					
REGISTRATION NUMBER: 38,459			QY					
REFERENCE/DOCKET NUMBER: 1218.002			Db					
TELECOMMUNICATION INFORMATION:			QY					
TELEPHONE: (510) 923-2706			Db					
TELEFAX: (510) 655-3542			QY					
INFORMATION FOR SEQ ID NO: 3:			Db					
SEQUENCE CHARACTERISTICS:			QY					
LENGTH: 5107 base pairs			Db					
TYPE: nucleic acid			QY					
STRANDEDNESS: single			Db					
TOPOLOGY: linear			QY					
MOLECULE TYPE: DNA (genomic)			Db					
SEQUENCE DESCRIPTION: SEQ ID NO: 3:			QY					
US-10-278-751-3			Db					
Query Match			QY					
Best Local Similarity 99.2%; Score 827.6; DB 15; Length 5107;			Db					
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;			QY					
1 GTAAGTACCGCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCATGCTATAGTG 60			Db					
818 GTAAGTACCGCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCATGCTATAGTG 877			QY					
61 TTTTGGCTTGGGGCCTATACACCCCGCTCTTATGCTATAGTGTAGTGTAGTGTAG 120			Db					
878 TTTTGGCTTGGGGCCTATACACCCCGCTCTTATGCTATAGTGTAGTGTAGTGTAG 937			QY					
121 CCTATAGTGTGGGTATTGACCAATTATGACCACTCCCTATTGGTGACGATCTTTC 180			Db					
938 CCTATAGTGTGGGTATTGACCAATTATGACCACTCCCTATTGGTGACGATCTTTC 997			QY					
181 ATTACTAATCCATAAATGAGTCTTTGGCCAACTATCTTATTTGGCTATATGCAATAC 240			Db					
998 ATTACTAATCCATAAATGAGTCTTTGGCCAACTATCTTATTTGGCTATATGCAATAC 1057			QY					
241 TCTGTCTTTCAGAGCTGACACCGACTCTGATTTTACAGGATGGGTCCATTATTAT 300			Db					
1058 TCTGTCTTTCAGAGCTGACACCGACTCTGATTTTACAGGATGGGTCCATTATTAT 1117			QY					
301 TTACAAATTCACATATACAAACGCGCTCCCGTCCCGTCCCGTCCCGTCCCGTCCCGT 360			Db					
1118 TTACAAATTCACATATACAAACGCGCTCCCGTCCCGTCCCGTCCCGTCCCGTCCCGT 1177			QY					
361 CGTGGGATCTCCGACATCTCGGGTACGTGTTCCGGACATGGGCTCTTCTCCGGTAGCGGC 420			Db					
1178 CGTGGGATCTCCGACATCTCGGGTACGTGTTCCGGACATGGGCTCTTCTCCGGTAGCGGC 1237			QY					
421 GGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGGTCCGTCGGCAGC 480			Db					
1238 GGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGGTCCGTCGGCAGC 1297			QY					
481 TCCTTGTCTCCTAACAGTGGAGCCAGACTTAGGCACAGCAATGCCACACACAGT 540			Db					
1298 TCCTTGTCTCCTAACAGTGGAGCCAGACTTAGGCACAGCAATGCCACACACAGT 1357			QY					
541 GTGCGGCACAAAGCCGCTGGGCTAGGGTATGTGCTGAAAATGAGTCGGAGATTGGGCT 600			Db					
1358 GTGCGGCACAAAGCCGCTGGGCTAGGGTATGTGCTGAAAATGAGTCGGAGATTGGGCT 1417			QY					
601 CGCACCGTACGACAGTGAAGACTTTAAGGACGCGCAGCAAGATGACGACGCTGAG 660			Db					
1418 CGCACCTGACGACAGTGAAGACTTTAAGGACGCGCAGCAAGATGACGACGCTGAG 1477			QY					
661 TTGTTGTTATTCTGATAAGAGTCAGAGGTAACCTCCCGTTGCGGTGCTGTTAAACGGTGGAGG 720			Db					

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Db 1245 GGAGCTTCCACATCCGAGCCCTGGTCCATCCGTCAGCGGCTCATGGTCGTCGGCAGC 1304
Qy 481 TCCTTGCTCTCTAAACAGTGGAGGCCAGACTTAGGCACAGCACAATGCCACCACCACAGT 540
Db 1305 TCCTTGCTCTCTAAACAGTGGAGGCCAGACTTAGGCACAGCACAATGCCACCACCACAGT 1364
Qy 541 GTGCCGCACAGGCCGTCGGGTAGGTATGTCTGAAATGAGCTCGGAGATTGGGCT 600
Db 1365 GTGCCGCACAGGCCGTCGGGTAGGTATGTCTGAAATGAGCTCGGAGATTGGGCT 1424
Qy 601 CGCACCTGACGCGAGATGGAAGACTTAAGGCGAGCGGCAGAGAAGATGCGAGCGAGCTGAG 660
Db 1425 CGCACCTGAGCGAGATGGAAGACTTAAGGCGAGCGGCAGAGAAGATGCGAGCGAGCTGAG 1484
Qy 661 TTGTTGTTATTTCTGATAAGAGTCAGAGGTAACTCCCGTTGGCGTGTCTGTTAAACCGTGGAGG 720
Db 1485 TTGTTGTTATTTCTGATAAGAGTCAGAGGTAACTCCCGTTGGCGTGTCTGTTAAACCGTGGAGG 1544
Qy 721 GCAGTGTAGTCTGAGCAGTACTCGTCTGCGCGCGCGCCACCAGACATAATAGCTGAC 780
Db 1545 GCAGTGTAGTCTGAGCAGTACTCGTCTGCGCGCGCGCCACCAGACATAATAGCTGAC 1604
Qy 781 AGACTAACAGACTGTTCTCTTTCCATGGGTCTTTTCTGCACTCACCGTCGTCGAC 834
Db 1605 AGACTAACAGACTGTTCTCTTTCCATGGGTCTTTTCTGCACTCACCGTCGTCGAC 1658
```

## RESULT 6

```
US-10-090-983-8
; Sequence 8, Application US/10090983
; Publication No. US20020194630A1
; GENERAL INFORMATION:
; APPLICANT: Manning, William C., Jr.
; APPLICANT: Dwardki, Varavani J.
; APPLICANT: Rendahl, Katherine
; APPLICANT: Zhou, Shang-Zhen
; APPLICANT: McGee, Laura H.
; APPLICANT: Lau, Dana
; APPLICANT: Flannery, John G.
; APPLICANT: Miller, Sheldon
; APPLICANT: Wang, Fei
; APPLICANT: Di Polo, Adriana
; TITLE OF INVENTION: USE OF RECOMBINANT GENE DELIVERY VECTORS
; TITLE OF INVENTION: FOR TREATING OR PREVENTING DISEASES OF THE EYE
; FILE REFERENCE: PP1588.005 (20263.50)
; CURRENT APPLICATION NUMBER: US/10/090,983
; CURRENT FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 5974
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-090-983-8
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Query Match 99.2%; Score 827.6; DB 13; Length 5974;

Best Local Similarity 99.5%; Pred. No. 1.2e-267;

Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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Qy 1 GTAAGTACCCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCTATGCTACTG 60
Db 825 GTAAGTACCCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCTATGCTACTG 884
Qy 61 TTTTGGCTTTGGGCTTATACACCCCGCTCTTATGCTATGCTATGCTATGCTATGCTATGCT 120
Db 885 TTTTGGCTTTGGGCTTATACACCCCGCTCTTATGCTATGCTATGCTATGCTATGCTATGCT 944
Qy 121 CCTATAGGTGGGTATTTGACCATTTATGACCACTCCCTATTTGGTGACGATACTTTCC 180
Db 945 CCTATAGGTGGGTATTTGACCATTTATGACCACTCCCTATTTGGTGACGATACTTTCC 1004
Qy 181 ATTACTAATCATTAACATGGCTCTTTGGCACAACACTATCTCTATTTGGCTATATGCCAATAC 240
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Db 1005 ATTACTAATCATTAACATGGCTCTTTGGCACAACACTATCTCTATTTGGCTATATGCCAATAC 1064
Qy 241 TCTGTCTCTTACAGAGACTGACACGGACTCTGTATTTTTTACAGGATGGGGTCCATTTATTAT 300
Db 1065 TCTGTCTCTTACAGAGACTGACACGGACTCTGTATTTTTTACAGGATGGGGTCCATTTATTAT 1124
Qy 301 TTACAAATTCACATATACAAACAGCGGCTCCCGTGGCGCGAGTTTTTTATTAACAATAG 360
Db 1125 TTACAAATTCACATATACAAACAGCGGCTCCCGTGGCGCGAGTTTTTTATTAACAATAG 1184
Qy 361 CGTGGGATCTCCGACATCTCGGTCAGTGTTCGGACATCGGCTCTTCTCCGCTAGCGGC 420
Db 1185 CGTGGGATCTCCGACATCTCGGTCAGTGTTCGGACATCGGCTCTTCTCCGCTAGCGGC 1244
Qy 421 GGAGCTTTCACATCCGAGCCCTCGTCCCATGCTCCAGCGGCTCATGGTCTGCTCGGCAGC 480
Db 1245 GGAGCTTTCACATCCGAGCCCTCGTCCCATGCTCCAGCGGCTCATGGTCTGCTCGGCAGC 1304
Qy 481 TCTTGTCTCTTAACAGTGGAGGCAGACTTTAGGCACAGCACAATGCCACCACCACAGT 540
Db 1305 TCTTGTCTCTTAACAGTGGAGGCAGACTTTAGGCACAGCACAATGCCACCACCACAGT 1364
Qy 541 GTCCCGCACAAAGCCGCTGGCGGTAGGTATGTCTGAAATGAGCTCGGAGATTGGGCT 600
Db 1365 GTCCCGCACAAAGCCGCTGGCGGTAGGTATGTCTGAAATGAGCTCGGAGATTGGGCT 1424
Qy 601 CGCACCTGACGCGAGATGGAAGACTTTAAGCAGCGCGCAGAGAAGATGCGAGCGAGCTGAG 660
Db 1425 CGCACCTGAGCGAGATGGAAGACTTTAAGCAGCGCGCAGAGAAGATGCGAGCGAGCTGAG 1484
Qy 661 TTGTTGTTATTTCTGATAAGAGTCAGAGGTAACTCCCGTTGGCGTGTCTGTTAAACCGTGGAGG 720
Db 1485 TTGTTGTTATTTCTGATAAGAGTCAGAGGTAACTCCCGTTGGCGTGTCTGTTAAACCGTGGAGG 1544
Qy 721 GCAGTGTAGTCTGAGCAGTACTCGTGTGTCGCGCGCGCCACCAGACATAATAGCTGAC 780
Db 1545 GCAGTGTAGTCTGAGCAGTACTCGTGTGTCGCGCGCGCCACCAGACATAATAGCTGAC 1604
Qy 781 AGACTAACAGACTGTTCTCTTTCCATGGGTCTTTTCTGCACTCACCGTCGTCGAC 834
Db 1605 AGACTAACAGACTGTTCTCTTTCCATGGGTCTTTTCTGCACTCACCGTCGTCGAC 1658
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## RESULT 7

```
US-10-090-983-1
; Sequence 1, Application US/10090983
; Publication No. US20020194630A1
; GENERAL INFORMATION:
; APPLICANT: Manning, William C., Jr.
; APPLICANT: Dwardki, Varavani J.
; APPLICANT: Rendahl, Katherine
; APPLICANT: Zhou, Shang-Zhen
; APPLICANT: McGee, Laura H.
; APPLICANT: Lau, Dana
; APPLICANT: Flannery, John G.
; APPLICANT: Miller, Sheldon
; APPLICANT: Wang, Fei
; APPLICANT: Di Polo, Adriana
; TITLE OF INVENTION: USE OF RECOMBINANT GENE DELIVERY VECTORS
; TITLE OF INVENTION: FOR TREATING OR PREVENTING DISEASES OF THE EYE
; FILE REFERENCE: PP1588.005 (20263.50)
; CURRENT APPLICATION NUMBER: US/10/090,983
; CURRENT FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 6514
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-090-983-1
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Query Match

99.2%; Score 827.6; DB 13; Length 6514;

Best Local Similarity 99.5%; Pred. No. 1.3e-267;			
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;			
Qy	1	GTAAGTACCGCCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCAATGCTACTACTG	60
Db	1018	GTAAGTACCGCCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCAATGCTACTACTG	1077
Qy	61	TTTTTGGCTTTGGGCGCTATACACCCCGCTCCTTATGCTATAGGTGATGTAAGCTTAG	120
Db	1078	TTTTTGGCTTTGGGCGCTATACACCCCGCTCCTTATGCTATAGGTGATGTAAGCTTAG	1137
Qy	121	CCATATAGGTGGGTATTGACCAATATTGACCACTCCCCTATTGGTGACGATCTTCC	180
Db	1138	CCATATAGGTGGGTATTGACCAATATTGACCACTCCCCTATTGGTGACGATCTTCC	1197
Qy	181	ATTACTAATCCATAAATGCTCTTTGCCACAACATCTCTATTGGCTATATGCCAATAC	240
Db	1198	ATTACTAATCCATAAATGCTCTTTGCCACAACATCTCTATTGGCTATATGCCAATAC	1257
Qy	241	TCTGTCTCTCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGGTCAATTTATTAT	300
Db	1258	TCTGTCTCTCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGGTCAATTTATTAT	1317
Qy	301	TTACAAATTCACATATACAAACGCCGTCCTCCCGTCGCCGAGTCTTCTCCGGTAGCGGC	360
Db	1318	TTACAAATTCACATATACAAACGCCGTCCTCCCGTCGCCGAGTCTTCTTATTAACATAG	1377
Qy	361	CGTGGGATCTCCGACATCTCGGGTACGTTGTTCCGGACATGGGCTCTTCTCCGGTAGCGGC	420
Db	1378	CGTGGGATCTCCGACATCTCGGGTACGTTGTTCCGGACATGGGCTCTTCTCCGGTAGCGGC	1437
Qy	421	GGAGCTTCCACATCCGAGCCCTGTGCCATGCTCCAGCGGCTCATGGTCTCTCGGAGC	480
Db	1438	GGAGCTTCCACATCCGAGCCCTGTGCCATCCGCTCCAGCGGCTCATGGTCTCTCGGAGC	1497
Qy	481	TCCTTGCTCTTAAACAGTGGAGCCAGACTTAGGCACACGACAAATGCCACACACCCAGT	540
Db	1498	TCCTTGCTCTTAAACAGTGGAGCCAGACTTAGGCACACGACAAATGCCACACACCCAGT	1557
Qy	541	GTGCGGCACAAGGCGCTGGCGGTAGGGTATGTGTCTGAAAATGAGCTCGGAGATGGGCT	600
Db	1558	GTGCGGCACAAGGCGCTGGCGGTAGGGTATGTGTCTGAAAATGAGCTCGGAGATGGGCT	1617
Qy	601	CGCACCGGTGACGAGATGGAAAGACTTAAGGCAGCGGCAGAAAGATGTCAGGCGAGCTGAG	660
Db	1618	CGCACCTGGACGCGAGATGGAAAGACTTAAGGCAGCGGCAGAAAGATGTCAGGCGAGCTGAG	1677
Qy	661	TTGTTGTATTCTGATAAGAGTCAGAGGTAATCCCGTTGCGGTCTGTGTTAAACGGTGGAGG	720
Db	1678	TTGTTGTATTCTGATAAGAGTCAGAGGTAATCCCGTTGCGGTCTGTGTTAAACGGTGGAGG	1737
Qy	721	GCAGTGTAGTCTGAGCAGTACTCTGTTGTCGCGCGCGCCACCAAGACATAATAGCTGCAC	780
Db	1738	GCAGTGTAGTCTGAGCAGTACTCTGTTGTCGCGCGCGCCACCAAGACATAATAGCTGCAC	1797
Qy	781	AGACTAAACAGACTGTTCTTTCCATGGGTCTTTTCTGCAGTCAACCGTCTGTCAC	834
Db	1798	AGACTAAACAGACTGTTCTTTTCCATGGGTCTTTTCTGCAGTCAACCGTCTGTCAC	1851

RESULT 8  
US-09-770-315-1  
; Sequence 1, Application US/09770315  
; Publication No. US20020058325A1  
; GENERAL INFORMATION:  
; APPLICANT: Chiron Corporation  
; TITLE OF INVENTION: Recombinant AAV Packaging Systems  
; FILE REFERENCE: 20263-501  
; CURRENT APPLICATION NUMBER: US/09/770,315  
; CURRENT FILING DATE: 2001-01-26  
; PRIOR APPLICATION NUMBER: US 60/178,536  
; PRIOR FILING DATE: 2000-01-26  
; NUMBER OF SEQ ID NOS: 8

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; SOFTWARE: Fast-SEQ for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 7015
; TYPE: DNA
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: recombinant DNA
US-09-770-315-1

Query Match          99.2%; Score 827.6; DB 9; Length 7015;
Best Local Similarity 99.5%; Pred. No. 1.3e-267;
Matches 830; Conservative

QY      1  GTAAGTACGCCCTATAGACTCTATAGCACACACCCCTTTGGCTCTTATGTCATGCTACTACTG 60
DB      2303  GTTAAGTACGCCCTATAGACTCTATAGCACACACCCCTTTGGCTCTTATGTCATGCTACTACTG 2362

QY      61  TTTTGGCTTGGGGCCTATACACCCCGCTCTTATGCTATAGGTGATGGTATAGCTTAG 120
DB      2363  TTTTGGCTTGGGGCCTATACACCCCGCTCTTATGCTATAGGTGATGGTATAGCTTAG 2422

QY      121  CCTATAGGTGTGGGTATTTGACCACTATTGACCACTCCCTATTTGGTGACGACTTTTCC 180
DB      2423  CCTATAGGTGTGGGTATTGACCACTATTGACCACTCCCTATTTGGTGACGACTTTTCC 2482

QY      181  ATTACTAATCCATAACATAGGCTCTTTGCCACAACTATCTATTTGGCTATATGCCAATAC 240
DB      2483  ATTACTAATCCATAACATAGGCTCTTTGCCACAACTATCTATTTGGCTATATGCCAATAC 2542

QY      241  TCTGTCTTTCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGTCCATTTATTAT 300
DB      2543  TCTGTCTTTCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGTCCATTTATTAT 2602

QY      301  TTACAAATTCACATATACAAACGCGCTCCCGCTGCCCGCAGTTTTTTATTAACATAG 360
DB      2603  TTACAAATTCACATATACAAACGCGCTCCCGCTGCCCGCAGTTTTTTATTAACATAG 2662

QY      361  CGTGGGATCTCCGACATCTCGGTACGTGTTCGGACATGGCTCTCTCCGGTAGGGCG 420
DB      2663  CGTGGGATCTCCGACATCTCGGTACGTGTTCGGACATGGCTCTCTCCGGTAGGGCG 2722

QY      421  GGAGCTTCCACATCCGAGCCCTGGTCCCATCGCTCCAGCGGCTCATGGTCGCTCGGCAGC 480
DB      2723  GGAGCTTCCACATCCGAGCCCTGGTCCCATCGCTCCAGCGGCTCATGGTCGCTCGGCAGC 2782

QY      481  TCCTTGTCTCTAACAGTGGAGGCAGACTTAGGCACAGCACAATGCCACCACCACAGT 540
DB      2783  TCCTTGTCTCTAACAGTGGAGGCAGACTTAGGCACAGCACAATGCCACCACCACAGT 2842

QY      541  GTGCCGCACAGGCCGTGGCGGTAGGTTATGTGTCGAAAATAGCTCGGAGATTGGGCT 600
DB      2843  GTGCCGCACAGGCCGTGGCGGTAGGTTATGTGTCGAAAATAGCTCGGAGATTGGGCT 2902

QY      601  CGCACCGGTACGCAGATGGAAAGCTTAAGGCAGCGGCAGAGAAGATGCAGGACGCTGAG 660
DB      2903  CGCACCTGGACGCAGATGGAAAGCTTAAGGCAGCGGCAGAGAAGATGCAGGACGCTGAG 2962

QY      661  TTGTTGTAATTCGTATAGAGTTCAGAGTAACTCCCGTTGCGGTCTGTTAACGGTGGAGG 720
DB      2963  TTGTTGTAATTCGTATAGAGTTCAGAGTAACTCCCGTTGCGGTCTGTTAACGGTGGAGG 3022

QY      721  GCAGTGTAGTCTGAGCAGTACTCGTTGTCTGCCGCGCGCCACCAGACATTAATAGCTGAC 780
DB      3023  GCAGTGTAGTCTGAGCAGTACTCGTTGTCTGCCGCGCGCCACCAGACATTAATAGCTGAC 3082

QY      781  AGACTAAACAGACTGTTCTTTCATGGGTCTTTTCTGCACTGACGCTCGTCGAC 834
DB      3083  AGACTAAACAGACTGTTCTTTCATGGGTCTTTTCTGCACTGACGCTCGTCGAC 3136

```

RESULT 9  
US-10-090-983-3  
; Sequence 3, Application US/10090983

Publication No. US20020194630A1  
; GENERAL INFORMATION:  
; APPLICANT: Manning, William C., Jr.  
; APPLICANT: Dwarki, Varavani J.  
; APPLICANT: Rendahl, Katherine  
; APPLICANT: Zhou, Shang-Zhen  
; APPLICANT: McGee, Laura H.  
; APPLICANT: Lau, Dana  
; APPLICANT: Flannery, John G.  
; APPLICANT: Miller, Sheldon  
; APPLICANT: Wang, Fei  
; APPLICANT: Di Polo, Adriana  
; TITLE OF INVENTION: USE OF RECOMBINANT GENE DELIVERY VECTORS  
; FILE REFERENCE: PPI588.005 (20263.50)  
; CURRENT APPLICATION NUMBER: US/10/090,983  
; CURRENT FILING DATE: 2002-03-04  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 3  
; LENGTH: 7096  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-10-090-983-3

Query Match  
Best Local Similarity 99.2%; Score 827.6; DB 13; Length 7096;  
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 GTAAGTACCGCTATAGACTCTATAGGCACACCCCTTGGCTCTTATGATGCTACTG 60  
Db 825 GTAAGTACCGCTATAGACTCTATAGGCACACCCCTTGGCTCTTATGATGCTACTG 884  
Qy 61 TTTTGGCTTGGGCTTATACACCCCGCTCTTATGCTATAGTATGATGCTAGCTAG 120  
Db 885 TTTTGGCTTGGGCTTATACACCCCGCTCTTATGCTATAGTATGATGCTAGCTAG 944  
Qy 121 CCTATAGGTGGGTATTGACCAATATTGACCACTCCCTATTGGTGACGATACTTCC 180  
Db 945 CCTATAGGTGGGTATTGACCAATATTGACCACTCCCTATTGGTGACGATACTTCC 1004  
Qy 181 ATTACTAATCATTAACATGCTCTTTGCCCACTACTCTATTGGTATATGCCAATAC 240  
Db 1005 ATTACTAATCATTAACATGCTCTTTGCCCACTACTCTATTGGTATATGCCAATAC 1064  
Qy 241 TCTGTCTTCAGAGCTGACACGAGCTCTGTATTTTACAGGATGGGCTCATTTATAT 300  
Db 1065 TCTGTCTTCAGAGCTGACACGAGCTCTGTATTTTACAGGATGGGCTCATTTATAT 1124  
Qy 301 TTACAAATTCACATATACAAACAGCGCTCCCGGTCGCGCAGTTTATTAAACATAG 360  
Db 1125 TTACAAATTCACATATACAAACAGCGCTCCCGGTCGCGCAGTTTATTAAACATAG 1184  
Qy 361 CGTGGGATCTCGACATCTCGGTACGTGTTCGGACATGGCTCTTCGGGTAGCGGC 420  
Db 1185 CGTGGGATCTCGACATCTCGGTACGTGTTCGGACATGGCTCTTCGGGTAGCGGC 1244  
Qy 421 GAGCTTCCACATCCGAGCCCTGTGCCATGCTCCAGCGGCTCATGGTCCGCTCGGCAGC 480  
Db 1245 GAGCTTCCACATCCGAGCCCTGTGCCATGCTCCAGCGGCTCATGGTCCGCTCGGCAGC 1304  
Qy 481 TCCTTGTCTCTAACAGTGGAGGCGAGACTTATAGGCACAGCAATATGCCACCAACAGT 540  
Db 1305 TCCTTGTCTCTAACAGTGGAGGCGAGACTTATAGGCACAGCAATATGCCACCAACAGT 1364  
Qy 541 GTCCCGACAGGCGGCTGGGTAGGTATGTCTGAAATAGCTCGAGATGGGCT 600  
Db 1365 GTCCCGACAGGCGGCTGGGTAGGTATGTCTGAAATAGCTCGAGATGGGCT 1424  
Qy 601 CGCACCGTGACGAGATGGAGACTTAAAGGCGGCGAGAGAGATGACGAGGAGCTGAG 660  
Db 1425 CGCACCGTGACGAGATGGAGACTTAAAGGCGGCGAGAGAGATGACGAGGAGCTGAG 1484

Qy 661 TTCTTGTATTTCTGATAAGAGTCAAGAGTAACCTCCCGTTGGGTGCTGTAAACGGTGGAGG 720  
Db 1485 TTCTTGTATTTCTGATAAGAGTCAAGAGTAACCTCCCGTTGGGTGCTGTAAACGGTGGAGG 1544  
Qy 721 GCAGTGTAGTCTGAGCAGTACTCTGTTGCTGCGCGCGCCACACAGACATAATAGCTGAC 780  
Db 1545 GCAGTGTAGTCTGAGCAGTACTCTGTTGCTGCGCGCGCCACACAGACATAATAGCTGAC 1604  
Qy 781 AGACTAACAGACTGTTCCCTTCCATGGGTCTTTTCTGCACTACCCGTCGTCGAC 834  
Db 1605 AGACTAACAGACTGTTCCCTTCCATGGGTCTTTTCTGCACTACCCGTCGTCGAC 1658

RESULT 10  
US-10-278-751-1  
; Sequence 1, Application US/10278751  
; Publication No. US20030185890A1  
; GENERAL INFORMATION:  
; APPLICANT: Zuckermann et al.  
; TITLE OF INVENTION: Compositions and Methods for Delivery  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Chiron Corporation  
; STREET: 4560 Horton Street  
; CITY: Emeryville  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 94608-2916  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: IBM PC compatible  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/10/278,751  
; FILING DATE: 22-Jan-2003  
; CLASSIFICATION: <Unknown>  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fujita, Sharon M.  
; REGISTRATION NUMBER: 38,459  
; REFERENCE/DOCKET NUMBER: 1218.002  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (510) 923-2706  
; TELEFAX: (510) 655-3542  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 9600 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
US-10-278-751-1

Query Match  
Best Local Similarity 99.2%; Score 827.6; DB 15; Length 9600;  
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 GTAAGTACCGCTATAGACTCTATAGGCACACCCCTTGGCTCTTATGATGCTACTG 60  
Db 5920 GTAAGTACCGCTATAGACTCTATAGGCACACCCCTTGGCTCTTATGATGCTACTG 5979  
Qy 61 TTTTGGCTTGGGCTTATAGCCCTTATAGCTATAGTATGCTATAGTATGCTAGCTAG 120  
Db 5980 TTTTGGCTTGGGCTTATAGCCCTTATAGCTATAGTATGCTATAGTATGCTAGCTAG 6039  
Qy 121 CCTATAGGTGGGTATTGACCAATATTGACCACTCCCTATTGGTGACGATACTTCC 180  
Db 6040 CCTATAGGTGGGTATTGACCAATATTGACCACTCCCTATTGGTGACGATACTTCC 6099  
Qy 181 ATTACTAATCCATAACATGGCTCTTTGCCAACAATCTCTATTGGCTATATGCCAATAC 240

Db 6100 ATTACTAATCCATAACATGCTCTTTGCCACAACACTCTCTATTGGCTATATGCCAATAC 6159  
Qy 241 TCTGTCCTTCCAGAGCTGACACCGGACTCTGTAATTTTACAGGATGGGTCATTTATTAT 300  
Db 6160 TCTGTCCTTCCAGAGCTGACACCGGACTCTGTAATTTTACAGGATGGGTCATTTATTAT 6219  
Qy 301 TTACAAATTCACATATACACACCGGCTCCCGGTCGCGCAGTTTATTATAACATAG 360  
Db 6220 TTACAAATTCACATATACACACCGGCTCCCGGTCGCGCAGTTTATTATAACATAG 6279  
Qy 361 CGTGGGATCTCCGACATCTCGGTAACGTTTCCGGACATGGGCTCTTCTCCGGTAGCGGC 420  
Db 6280 CGTGGGATCTCCGACATCTCGGTAACGTTTCCGGACATGGGCTCTTCTCCGGTAGCGGC 6339  
Qy 421 GGAGCTTCCACATCCGAGCCCTGGTCCATGCTTCCAGCGGCTCATGGTCTCGGCAGC 480  
Db 6340 GGAGCTTCCACATCCGAGCCCTGGTCCATGCTTCCAGCGGCTCATGGTCTCGGCAGC 6399  
Qy 481 TCCTTGCTCTTAAAGTGGAGGCCAGACTTAGGCACAGCAATGCCACACCACCACT 540  
Db 6400 TCCTTGCTCTTAAAGTGGAGGCCAGACTTAGGCACAGCAATGCCACACCACCACT 6459  
Qy 541 GTCCGACACAGGCGCGGTAGGCTATGCTGTGAAATAGACTCGGAGATTGGGCT 600  
Db 6460 GTCCGACACAGGCGCGGTAGGCTATGCTGTGAAATAGACTCGGAGATTGGGCT 6519  
Qy 601 CGCACCGTGCAGAGATGGAAGACTTAAGGACGCGGCAGAGAGATGCCAGGCTGAG 660  
Db 6520 CGCACCTGGACGAGATGGAAGACTTAAGGACGCGGCAGAGAGATGCCAGGCTGAG 6579  
Qy 661 TTGTTGATCTGTATAGAGTCAGAGGTAACTCCGTTGGGCTGCTTTAACGGTGGAGG 720  
Db 6580 TTGTTGATCTGTATAGAGTCAGAGGTAACTCCGTTGGGCTGCTTTAACGGTGGAGG 6639  
Qy 721 CGAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGCCACAGACATATAGCTGAC 780  
Db 6640 CGAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGCCACAGACATATAGCTGAC 6699  
Qy 781 AGACTAACAGACTGTCTTCCATGGGTCTTTTCTGCAGTCACCGTCGTGAC 834  
Db 6700 AGACTAACAGACTGTCTTCCATGGGTCTTTTCTGCAGTCACCGTCGTGAC 6753

RESULT 11

US-10-781-142-8  
; Sequence 8, Application US/10781142  
; Publication No. US20040192630A1  
; GENERAL INFORMATION:  
; APPLICANT: Kyrkanides, Stephanos  
; TITLE OF INVENTION: VECTORS HAVING BOTH ISOFORMS OF  
; TITLE OF INVENTION: BETA-HEXOSAMINIDASE AND USES OF THE SAME  
; FILE REFERENCE: 21108.0040U1  
; CURRENT APPLICATION NUMBER: US/10/781,142  
; CURRENT FILING DATE: 2004-02-18  
; PRIOR APPLICATION NUMBER: PCT/US03/13672  
; PRIOR FILING DATE: 2003-05-03  
; PRIOR APPLICATION NUMBER: 60/377,503  
; PRIOR FILING DATE: 2002-05-02  
; NUMBER OF SEQ ID NOS: 71  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 8  
; LENGTH: 12745  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:/Note =  
; OTHER INFORMATION: Synthetic Construct  
US-10-781-142-8

Query Match 96.2%; Score 802.6; DB 18; Length 12745;  
Best Local Similarity 99.0%; Pred. No. 58-259; 4; Indels 4; Gaps 2;  
Matches 829; Conservative 0; Mismatches

Qy 1 GTAAGTACCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGATGCTATACGTG 60  
Db 3102 GTAAGTACCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGATGCTATACGTG 3161  
Qy 61 TTTTGGCTTGGGGCTATACACCCCGCTCTTATGCTATAGGTGATGGTATAGCTTAG 120  
Db 3162 TTTTGGCTTGGGGCTATACACCCCGCTCTTATGCTATAGGTGATGGTATAGCTTAG 3221  
Qy 121 CCTATAGGTGCTGGTTATTGACCATTTATTGACCACTCCCTTATTTGGTACGATACCTTTCC 180  
Db 3222 CCTATAGGTGCTGGTTATTGACCATTTATTGACCACTCCCTTATTTGGTACGATACCTTTCC 3281  
Qy 181 ATTACTAATCCATAACATGGCTCTTTGGCCAACTATCTCTATTTGGCTATATGCCAATAC 240  
Db 3282 ATTACTAATCCATAACATGGCTCTTTGGCCAACTATCTCTATTTGGCTATATGCCAATAC 3341  
Qy 241 TCTGTCCTTCCAGAGCTGACACGGACTCTGTAATTTTACAGGATGGGT-CCATTTATTATA 299  
Db 3342 TCTGTCCTTCCAGAGCTGACACGGACTCTGTAATTTTACAGGATGGGTCCCATTTATTATA 3401  
Qy 300 TTTTACAAATTCACATATACAAACCGCTCCCGCTGCGCGCAGTTTTTATTAAACATA 359  
Db 3402 TTTTACAAATTCACATATACAAACCGCTCCCGCTGCGCGCAGTTTTTATTAAACATA 3461  
Qy 360 GCGTGGGATCTCC--GACATCTCGGGTAGGTGTTCCGGACATGGGCTCTTCTCCGGTAG 416  
Db 3462 GCGTGGGATCTCCACGCGAATCTCGGGTAGGTGTTCCGGACATGGGCTCTTCTCCGGTAG 3521  
Qy 417 CGCGGAGACTTCCATCTCGGCGCTGCTCCATGCTCCAGCGGCTCATGGTCTCGTCCG 476  
Db 3522 CGCGGAGACTTCCATCTCGGCGCTGCTCCATGCTCCAGCGGCTCATGGTCTCGTCCG 3581  
Qy 477 CAGCTCTCTGCTCTTAACTAGGAGCCAGACTTTAGGCACAGCACAAATGCCACCCAC 536  
Db 3582 CAGCTCTCTGCTCTTAACTAGGAGCCAGACTTTAGGCACAGCACAAATGCCACCCAC 3641  
Qy 537 CAGTGTGCGCCACAAGACCGCTGCGGTAGGTATGCTGTGAAAATGAGCTCGGAGATTG 596  
Db 3642 CAGTGTGCGCCACAAGACCGCTGCGGTAGGTATGCTGTGAAAATGAGCTCGGAGATTG 3701  
Qy 597 GGCTCGACCGTACCGCAGATGGAAGACTTAAAGCGCGGCGCAGAAAGATGACGGCAGC 656  
Db 3702 GGCTCGACCGTACCGCAGATGGAAGACTTAAAGCGCGGCGCAGAAAGATGACGGCAGC 3761  
Qy 657 TGAGTTCTTGTATTCTGATAGAGTACAGAGTAACTCCCGTTGGGCTGTTAAACGGTG 716  
Db 3762 TGAGTTCTTGTATTCTGATAGAGTACAGAGTAACTCCCGTTGGGCTGTTAAACGGTG 3821  
Qy 717 GAGGGCAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGCCACACAGACATAATAGC 776  
Db 3822 GAGGGCAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGCCACACAGACATAATAGC 3881  
Qy 777 TGACAGACTAACAGACTGTTCTTTCCATGGGTCTTTTCTGCACTACCGTCTGCGA 833  
Db 3882 TGACAGACTAACAGACTGTTCTTTCCATGGGTCTTTTCTGCACTACCGTCTGCGA 3938

RESULT 12

US-10-247-703-50  
; Sequence 50, Application US/10247703  
; Publication No. US20030063597A1  
; GENERAL INFORMATION:  
; APPLICANT: Branigan, Patrick  
; APPLICANT: Goletz, Theresa J  
; APPLICANT: Knight, David M  
; APPLICANT: McCarthy, Stephen G  
; APPLICANT: Scallion, Bernard J  
; APPLICANT: Snyder, Linda A  
; TITLE OF INVENTION: NUCLEIC ACID VACCINES USING TUMOR ANTIGEN ENCODING NUCLEIC ACIDS  
; FILE REFERENCE: CEN310  
; CURRENT APPLICATION NUMBER: US/10/247,703  
; CURRENT FILING DATE: 2002-09-20



; PRIOR APPLICATION NUMBER: 60/328,371  
; PRIOR FILING DATE: 2001-10-10  
; NUMBER OF SEQ ID NOS: 77  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 50  
; LENGTH: 2361  
; TYPE: DNA  
; ORGANISM: Human cytomegalovirus  
US-10-247-703-50

Query Match 96.2%; Score 802; DB 14; Length 2361;  
Best Local Similarity 98.9%; Pred. No. 3.2e-259;  
Matches 829; Conservative 0; Mismatches 5; Indels 4; Gaps 2;

QY 1 GTAAGTACCCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGATGCTATAGT 60  
DB 1265 GTAAGTACCCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGATGCTATAGT 1324  
QY 61 TTTTGGCTTGGGCTATACACCCCGCTCTTATGCTATAGTATAGTATAGTATAGT 120  
DB 1325 TTTTGGCTTGGGCTATACACCCCGCTCTTATGCTATAGTATAGTATAGTATAGT 1384  
QY 121 CCTATAGGTGTGGGTATTGACCAATTATTGACCACCTCCCTATTGCTAGGATGATGCTATAGT 180  
DB 1385 CCTATAGGTGTGGGTATTGACCAATTATTGACCACCTCCCTATTGCTAGGATGATGCTATAGT 1444  
QY 181 ATTACTAATCCATAACATGGCTCTTTGGCCAACTATCTATTGCTATATAGGCTATATGCCAATAC 240  
DB 1445 ATTACTAATCCATAACATGGCTCTTTGGCCAACTATCTATTGCTATATAGGCTATATGCCAATAC 1504  
QY 241 TCTGTCTTTCAGAGCTGACACGGACTCTGTATTTTACAGGATGGGT-CCATTTTATTA 299  
DB 1505 TCTGTCTTTCAGAGCTGACACGGACTCTGTATTTTACAGGATGGGTCCCATTTTATTA 1564  
QY 300 TTTTACAAATTACATATACAAACCGCGTCCCGTCCCGCAGTTTATTTATTAACATA 359  
DB 1565 TTTTACAAATTACATATACAAACCGCGTCCCGTCCCGCAGTTTATTTATTAACATA 1624  
QY 360 GCGTGGGATCTCC- -GACATCTCGGATACGTTTCGGACATGGGCTCTTCTCCGGTAG 416  
DB 1625 GCGTGGGATCTCCACGGAATCTCGGATACGTTTCGGACATGGGCTCTTCTCCGGTAG 1684  
QY 417 CGGCGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGTCGTCGG 476  
DB 1685 CGGCGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGTCGTCGG 1744  
QY 477 CAGCTCTTCTCTTAACAGTGAGGCGCAGACTTTAGGCAAGCAATGCCACACCAC 536  
DB 1745 CAGCTCTTCTCTTAACAGTGAGGCGCAGACTTTAGGCAAGCAATGCCACACCAC 1804  
QY 537 CAGTGTCCGCAACAAGCCGCTGCGGTAGGTTATGTCTGAAATGAGCTCGAGATTG 596  
DB 1805 CAGTGTCCGCAACAAGCCGCTGCGGTAGGTTATGTCTGAAATGAGCTCGAGATTG 1864  
QY 597 GCGTCCGACCGTGACGAGTGAAGACTTAAGGCGGCGCAGAGAAAGATGCGAGCAGC 556  
DB 1865 GCGTCCGACCGTGACGAGTGAAGACTTAAGGCGGCGCAGAGAAAGATGCGAGCAGC 1924  
QY 657 TGAGTTGTTGTATTCTGATAAGAGTCAAGGTAACCTCCGTTGCGGTGCTGTTAAACGGTG 716  
DB 1925 TGAGTTGTTGTATTCTGATAAGAGTCAAGGTAACCTCCGTTGCGGTGCTGTTAAACGGTG 1984  
QY 717 GAGGCGAGTGTAGTCTGAGCAGTACTCGTTGCTGCCGCGCGCCACCCAGACATATAGC 776  
DB 1985 GAGGCGAGTGTAGTCTGAGCAGTACTCGTTGCTGCCGCGCGCCACCCAGACATATAGC 2044  
QY 777 TGACAGCTAAACAGACTGTCTTTTCCATGGGTCTTTTCTGCACTCACCCTGCTGCAC 834  
DB 2045 TGACAGCTAAACAGACTGTCTTTTCCATGGGTCTTTTCTGCACTCACCCTGCTGCAC 2102

RESULT 13

US-09-846-091-11

; Sequence 11, Application US/09846091  
; Patent No. US20020165176A1  
; GENERAL INFORMATION:  
; APPLICANT: HAYNES, Joel R.  
; APPLICANT: MACKLIN, Michael D.  
; APPLICANT: PAYNE, London G.  
; TITLE OF INVENTION: NUCLEIC ACID IMMUNIZATION  
; FILE REFERENCE: APF40  
; CURRENT APPLICATION NUMBER: US/09/846,091  
; PRIOR FILING DATE: 2001-04-30  
; PRIOR APPLICATION NUMBER: US/09/561,951  
; PRIOR FILING DATE: 2000-05-01  
; NUMBER OF SEQ ID NOS: 11  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 11  
; LENGTH: 4622  
; TYPE: DNA  
; ORGANISM: PM2-FL plasmid  
US-09-846-091-11

Query Match 95.8%; Score 799.2; DB 9; Length 4622;  
Best Local Similarity 99.2%; Pred. No. 4e-258;  
Matches 825; Conservative 0; Mismatches 3; Indels 4; Gaps 2;

QY 1 GTAAGTACCCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGATGCTATAGT 60  
DB 2070 GTAAGTACCCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGATGCTATAGT 2129  
QY 61 TTTTGGCTTGGGCTATACACCCCGCTCTATAGCTATAGTATAGTATAGTATAGTATAGT 120  
DB 2130 TTTTGGCTTGGGCTATACACCCCGCTCTATAGCTATAGTATAGTATAGTATAGTATAGT 2189  
QY 121 CCTATAGGTGTGGGTATTGACCAATTATTGACCACCTCCCTATTGCTAGCAGTACTTTCC 180  
DB 2190 CCTATAGGTGTGGGTATTGACCAATTATTGACCACCTCCCTATTGCTAGCAGTACTTTCC 2249  
QY 181 ATTACTAATCCATAACATGGCTCTTTGGCCAACTATCTATTGCTATATGCCAATAC 240  
DB 2250 ATTACTAATCCATAACATGGCTCTTTGGCCAACTATCTATTGCTATATGCCAATAC 2309  
QY 241 TCTGTCTTTCAGAGCTGACACGGACTCTGTATTTTACAGGATGGGT-CCATTTTATTA 299  
DB 2310 TCTGTCTTTCAGAGCTGACACGGACTCTGTATTTTACAGGATGGGTCCCATTTATTA 2369  
QY 300 TTTTACAAATTACATATACAAACCGCGTCCCGTCCCGTCCCGCAGTTTATTTAAACATA 359  
DB 2370 TTTTACAAATTACATATACAAACCGCGTCCCGTCCCGCAGTTTATTTAAACATA 2429  
QY 360 GCGTGGGATCTCC- -GACATCTCGGATACGTTTCCGGAATGCGGCTCTTCTCCGGTAG 416  
DB 2430 GCGTGGGATCTCCACGCGAATCTCGGATACGTTTCCGGAATGCGGCTCTTCTCCGGTAG 2489  
QY 417 CGGCGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGTCGTCGG 476  
DB 2490 CGGCGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGTCGTCGG 2549  
QY 477 CAGCTCTTGTCTCTTAACAGTGGAGGCCAGACTTTAGGCAAGCAATGCCACACCAC 536  
DB 2550 CAGCTCTTGTCTCTTAACAGTGGAGGCCAGACTTTAGGCAAGCAATGCCACACCAC 2609  
QY 537 CAGTGTCCGCAACAAGCCGCTGCGGTAGGTTATGTGTGAAATGAGCTCGAGATTG 596  
DB 2610 CAGTGTCCGCAACAAGCCGCTGCGGTAGGTTATGTGTGAAATGAGCTCGAGATTG 2669  
QY 597 GCGTCCGACCGTGACGAGATGAAGACTTAAGGCGGCGCAGAGAAAGATGCGAGCAGC 656  
DB 2670 GCGTCCGACCGTGACGAGATGAAGACTTAAGGCGGCGCAGAGAAAGATGCGAGCAGC 2729  
QY 657 TGAGTTGTTGTATTCTGATAAGAGTCAAGGTAACCTCCGTTGCGGTGCTGTTAAACGGTG 716  
DB 2730 TGAGTTGTTGTATTCTGATAAGAGTCAAGGTAACCTCCGTTGCGGTGCTGTTAAACGGTG 2789  
QY 717 GAGGCGAGTGTAGTCTGAGCAGTACTCTGTTGCTGCCGCGCGCCACCCAGACATATAGC 776



Db 2790 GAGGCGAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGCGCCACCAAGACATATATAGC 2849  
Qy 777 TGACAGACTAACAGACTGTTCTTTCCATGGGTCCTTTTCTGCAAGTCAACCGTC 828  
Db 2850 TGACAGACTAACAGACTGTTCTTTCCATGGGTCCTTTTCTGCAAGTCAACCGTC 2901  
RESULT 14  
US-09-993-307-2  
; Sequence 2, Application US/09993307  
; Publication No. US20030162733A1  
; GENERAL INFORMATION:  
; APPLICANT: HAYNES, Joel R.  
; TITLE OF INVENTION: NUCLEIC ACID ADJUVANTS  
; FILE REFERENCE: APP41.20  
; CURRENT APPLICATION NUMBER: US/09/993,307  
; CURRENT FILING DATE: 2001-11-26  
; PRIOR APPLICATION NUMBER: 60/253,381  
; PRIOR FILING DATE: 2000-11-27  
; NUMBER OF SEQ ID NOS: 26  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 2  
; LENGTH: 5089  
; TYPE: DNA  
; ORGANISM: pPUV2003 plasmid  
US-09-993-307-2  
Query Match 95.8%; Score 799.2; DB 10; Length 5089;  
Best Local Similarity 99.2%; Pred. No. 4.2e-258;  
Matches 825; Conservative 0; Mismatches 3; Indels 4; Gaps 2;  
Qy 1 GTAAGTACCGCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCAATGCTATAGT 60  
Db 3061 GTAAGTACCGCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCAATGCTATAGT 3120  
Qy 61 TTTTGGCTTGGGCGCTATACACCCCGCTCTTATGCTATAGTATAGTATAGCTTAG 120  
Db 3121 TTTTGGCTTGGGCGCTATACACCCCGCTCTTATGCTATAGTATAGTATAGCTTAG 3180  
Qy 121 CCTATAGTGTGGGTATTGACCACTATGACCACTCCCTTATGCTATAGTATAGTATAGCTTAG 180  
Db 3181 CCTATAGTGTGGGTATTGACCACTATGACCACTCCCTTATGCTATAGTATAGTATAGCTTAG 3240  
Qy 181 ATTACTAATCCATAACATGCTCTTTGGCAACAATCTCTATGCTATAGTATAGTATAGCTTAG 240  
Db 3241 ATTACTAATCCATAACATGCTCTTTGGCAACAATCTCTATGCTATAGTATAGTATAGCTTAG 3300  
Qy 241 TCTGTCTTCCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGT-CCATTTATTA 299  
Db 3301 TCTGTCTTCCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGT-CCATTTATTA 3360  
Qy 300 TTTACAAATTCCATATACAAACGCGTCCCGCTCCCGCTCCCGCTCCCGCTCCCGCTCCCGCT 359  
Db 3361 TTTACAAATTCCATATACAAACGCGTCCCGCTCCCGCTCCCGCTCCCGCTCCCGCTCCCGCT 3420  
Qy 360 GCGTGGGATCTCC---GACATCTCGGAGTACGTTCCGCAATGCGGCTCTTCTCCGGTAG 416  
Db 3421 GCGTGGGATCTCCCGCGCAATCTCGGATACGTTTCCGCAATGCGGCTCTTCTCCGGTAG 3480  
Qy 417 CGGCGGAGCTTCCATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGCTCGCTCGG 476  
Db 3481 CGGCGGAGCTTCCATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGCTCGCTCGG 3540  
Qy 477 CAGCTCTTGTCTCTTAACAGTGGAGCCAGACTTAGGCAACAGCAAAATGCCACACACAC 536  
Db 3541 CAGCTCTTGTCTCTTAACAGTGGAGCCAGACTTAGGCAACAGCAAAATGCCACACACAC 3600  
Qy 537 CAGTGTCCGCGCAACAGGCGGTGGGATGCTGTGAATGAGCTCGGAGATTG 596  
Db 3601 CAGTGTCCGCGCAACAGGCGGTGGGATGCTGTGAATGAGCTCGGAGATTG 3660

Qy 597 GGCTCGCACCGTGAACGAGACTTAAGCGAGCGGCGAGAGAAAGATGACGGCAGC 656  
Db 3661 GGCTCGCACCGTGAACGAGACTTAAGCGAGCGGCGAGAGAAAGATGACGGCAGC 3720  
Qy 657 TGAGTGTGTATTCTGATAGAGTCAAGGTAATCCCGTTGCGGTGCTGTTAAGCGTG 716  
Db 3721 TGAGTGTGTATTCTGATAGAGTCAAGGTAATCCCGTTGCGGTGCTGTTAAGCGTG 3780  
Qy 717 GAGGCGAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGGCCACACAGACATAATAGC 776  
Db 3781 GAGGCGAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGGCCACACAGACATAATAGC 3840  
Qy 777 TGACAGACTAACAGACTGTTCTTTCCATGGGTCTTTTCTGCAAGTCAACCGTC 828  
Db 3841 TGACAGACTAACAGACTGTTCTTTCCATGGGTCTTTTCTGCAAGTCAACCGTC 3892  
RESULT 15  
US-09-993-307-5  
; Sequence 5, Application US/09993307  
; Publication No. US20030162733A1  
; GENERAL INFORMATION:  
; APPLICANT: HAYNES, Joel R.  
; TITLE OF INVENTION: NUCLEIC ACID ADJUVANTS  
; FILE REFERENCE: APP41.20  
; CURRENT APPLICATION NUMBER: US/09/993,307  
; CURRENT FILING DATE: 2001-11-26  
; PRIOR APPLICATION NUMBER: 60/253,381  
; PRIOR FILING DATE: 2000-11-27  
; NUMBER OF SEQ ID NOS: 26  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 5  
; LENGTH: 5089  
; TYPE: DNA  
; ORGANISM: pPUV2005 plasmid  
US-09-993-307-5

Query Match 95.8%; Score 799.2; DB 10; Length 5089;  
Best Local Similarity 99.2%; Pred. No. 4.2e-258;  
Matches 825; Conservative 0; Mismatches 3; Indels 4; Gaps 2;  
Qy 1 GTAAGTACCGCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCAATGCTATAGT 60  
Db 3061 GTAAGTACCGCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCAATGCTATAGT 3120  
Qy 61 TTTTGGCTTGGGCGCTATACACCCCGCTCTTATGCTATAGTATAGTATAGCTTAG 120  
Db 3121 TTTTGGCTTGGGCGCTATACACCCCGCTCTTATGCTATAGTATAGTATAGCTTAG 3180  
Qy 121 CCTATAGTGTGGGTATTGACCACTATGACCACTCCCTTATGCTATAGTATAGCTTAG 180  
Db 3181 CCTATAGTGTGGGTATTGACCACTATGACCACTCCCTTATGCTATAGTATAGCTTAG 3240  
Qy 181 ATTACTAATCCATAACATGCTCTTTGGCAACAATCTCTATGCTATAGTATAGCTTAG 240  
Db 3241 ATTACTAATCCATAACATGCTCTTTGGCAACAATCTCTATGCTATAGTATAGCTTAG 3300  
Qy 241 TCTGTCTTCCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGT-CCATTTATTA 299  
Db 3301 TCTGTCTTCCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGT-CCATTTATTA 3360  
Qy 300 TTTACAAATTCCATATACAAACGCGTCCCGCTCCCGCTCCCGCTCCCGCTCCCGCTCCCGCT 359  
Db 3361 TTTACAAATTCCATATACAAACGCGTCCCGCTCCCGCTCCCGCTCCCGCTCCCGCTCCCGCT 3420  
Qy 360 GCGTGGGATCTCC---GACATCTCGGAGTACGTTCCGCAATGCGGCTCTTCTCCGGTAG 416  
Db 3421 GCGTGGGATCTCCCGCGCAATCTCGGATACGTTTCCGCAATGCGGCTCTTCTCCGGTAG 3480  
Qy 417 CGGCGGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGCTCGCTCGG 476  
Db 3481 CGGCGGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGCTCGCTCGG 3540

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Qy 477 CAGTCTCTTCTCTCTAAGTGGAGCCAGACTTAGGCACAGCACATGCCCACCCAC 536
Db |||||
Qy 537 CAGTGTGCCGCACAAAGCCGTGGCGGTAGGGTATGTCTGAAAAATGAGCTCGGAGATTG 596
Db |||||
Qy 3601 CAGTGTGCCGCACAAAGCCGTGGCGGTAGGGTATGTCTGAAATGAGCTCGGAGATTG 3660
Db |||||
Qy 597 GGCTCGCACCCGTGACCGCAGATGGAAGACTTAAAGCAGCGGCAGAAAGATGCAGGCAGC 656
Db |||||
Qy 3661 GGCTCGCACCCGTGACCGCAGATGGAAGACTTAAAGCAGCGGCAGAAAGATGCAGGCAGC 3720
Db |||||
Qy 657 TGAGTTGTTGTATCTGATTAAGATCAGAGGTAACCTCCCGTTGGGTTGCTTTAACGGTG 716
Db |||||
Qy 3721 TGAGTTGTTGTATCTGATTAAGATCAGAGGTAACCTCCCGTTGGGTTGCTTTAACGGTG 3780
Db |||||
Qy 717 GAGGGCAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGCCACACACATATATAGC 776
Db |||||
Qy 3781 GAGGGCAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGCCACACACATATATAGC 3840
Db |||||
Qy 777 TGACAGACTAACAGACTGTTCTTTCCATGGGTCTTTTCTGCACTCACCGTC 828
Db |||||
Qy 3841 TGACAGACTAACAGACTGTTCTTTCCATGGGTCTTTTCTGCACTCACCGTC 3892
Db |||||
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Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

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Searched: 824507 seqs, 355394441 residues

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Minimum DB seq length: 0

Maximum DB seq length: 2000000000

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Maximum Match 100%

Listing first 45 summaries

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- 2: /cgn2\_6/ptodata/1/ina/5B COMB.seq.\*
- 3: /cgn2\_6/ptodata/1/ina/6A COMB.seq.\*
- 4: /cgn2\_6/ptodata/1/ina/6B COMB.seq.\*
- 5: /cgn2\_6/ptodata/1/ina/PTUS COMB.seq.\*
- 6: /cgn2\_6/ptodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	827.6	99.2	4328	3	US-08-910-647-2
4	827.6	99.2	4328	4	US-09-620-925-2
5	827.6	99.2	4328	4	US-09-620-260-1
6	827.6	99.2	4328	4	US-09-620-259-1
7	827.6	99.2	4818	3	US-08-910-647-4
8	827.6	99.2	4818	4	US-09-620-925-4
9	827.6	99.2	5107	3	US-08-910-647-3
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12	827.6	99.2	5459	4	US-09-721-480-4
13	827.6	99.2	5882	4	US-09-721-480-6
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17	792.6	95.0	5215	4	US-09-173-053-8
18	791.2	94.9	824	4	US-09-495-052-56
19	778.4	93.3	5108	4	US-09-628-730-51
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21	778.4	93.3	5111	4	US-09-628-730-55
22	778.4	93.3	5185	4	US-09-628-730-47
23	778.4	93.3	5188	4	US-09-628-730-59
24	778.4	93.3	5254	4	US-09-628-730-60
25	777.2	93.2	4326	3	US-08-760-615-7
26	772.2	92.6	4928	1	US-08-345-913-1
27	772.2	92.6	4928	3	US-08-818-562-1
					Sequence 1, Appli
					Sequence 1, Appli
					Sequence 2, Appli
					Sequence 2, Appli
					Sequence 1, Appli
					Sequence 1, Appli
					Sequence 4, Appli
					Sequence 4, Appli
					Sequence 3, Appli
					Sequence 2, Appli
					Sequence 4, Appli
					Sequence 6, Appli
					Sequence 1, Appli
					Sequence 1, Appli
					Sequence 1, Appli
					Sequence 8, Appli
					Sequence 56, Appl
					Sequence 51, Appl
					Sequence 52, Appl
					Sequence 55, Appl
					Sequence 47, Appl
					Sequence 59, Appl
					Sequence 60, Appl
					Sequence 7, Appli
					Sequence 1, Appli

ALIGNMENTS

RESULT 1

US-09-721-480-1  
; Sequence 1, Application US/09721480  
; Patent No. 6740323  
; GENERAL INFORMATION:  
; APPLICANT: Selby, Mark  
; APPLICANT: Glazer, Edward  
; APPLICANT: Houghton, Michael  
; TITLE OF INVENTION: HBV/HCV VIRUS-LIKE PARTICLE  
; FILE REFERENCE: PP01635.002  
; CURRENT APPLICATION NUMBER: US/09/721,480  
; CURRENT FILING DATE: 2000-11-22  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 4276  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: plasmid pCMVII  
US-09-721-480-1

Query Match	99.2%	Score 827.6;	DB 4;	Length 4276;
Best Local Similarity	99.5%	Pred. No. 1.4e-266;		
Matches	830;	Conservative 0;	Mismatches 4;	Indels 0; Gaps 0;
Qy	1	GTAAGTACCGCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCGATGCTATAGTG 60		
Db	1144	GTAAGTACCGCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCGATGCTATAGTG 1203		
Qy	61	TTTTTGGCTTGGGCGCTATACACCCCGCTCTTATGCTATAGTGATGGTATAGCTTAG 120		
Db	1204	TTTTTGGCTTGGGCGCTATACACCCCGCTCTTATGCTATAGTGATGGTATAGCTTAG 1263		
Qy	121	CCTATAGGTGTGGGTATTGACCACTATTGACCACTCCCTATTGGTGACGATCTTTCC 180		
Db	1264	CCTATAGGTGTGGGTATTGACCACTATTGACCACTCCCTATTGGTGACGATCTTTCC 1323		
Qy	181	ATTACTAATTCATAAATGCGCTCTTTGGCACAACACTATCTCTATTTGGCTATATGCGCAATAC 240		
Db	1324	ATTACTAATTCATAAATGCGCTCTTTGGCACAACACTATCTCTATTTGGCTATATGCGCAATAC 1383		
Qy	241	TCGTCTCTTCAGAGACTGACACGAGCTCTGATTTTTTACAGGATGGGTCCATTATTAT 300		
Db	1384	TCGTCTCTTCAGAGACTGACACGAGCTCTGATTTTTTACAGGATGGGTCCATTATTAT 1443		
Qy	301	TTACAAATTCACATATACAAACGCGCTCCCGCGTCCCGCGAGTTTTTTTAAACATAG 360		
Db	1444	TTACAAATTCACATATACAAACGCGCTCCCGCGTCCCGCGAGTTTTTTTAAACATAG 1503		

361 CGTGGATCTCCGACATCTCGGTACGTGTTCCGACATCGGCTCTTCTCCGTTAGCGG 420  
Db  
1504 CGTGGATCTCCGACATCTCGGTACGTGTTCCGACATCGGCTCTTCTCCGTTAGCGG 1563  
Qy 421 GGAGCTTCCACATCCGAGCCCTGTGTCATGCTCCGAGCGGCTCATGCTCGTCCGAGC 480  
Db 1564 GGAGCTTCCACATCCGAGCCCTGTGTCATGCTCCGAGCGGCTCATGCTCGTCCGAGC 1623  
Qy 481 TCCCTGCTCTTAAACAGTGGAGCCAGACTTAGGCACAGCAATGCCACCACCACAGT 540  
Db 1624 TCCCTGCTCTTAAACAGTGGAGCCAGACTTAGGCACAGCAATGCCACCACCACAGT 1683  
Qy 541 GTCCCGCACAGGCGGTGGAGGTATGCTGCTGAAATGAGCTCGAGATTGGGCT 600  
Db 1684 GTCCCGCACAGGCGGTGGAGGTATGCTGCTGAAATGAGCTCGAGATTGGGCT 1743  
Qy 601 CGCACCGTGACGACAGATGGAAGACTTAAGGAGCGGCGAGAGAGATGCGAGCTGAG 660  
Db 1744 CGCACCTGGACGACAGATGGAAGACTTAAGGAGCGGCGAGAGAGATGCGAGCTGAG 1803  
Qy 661 TTGTTGTATCTGATAGAGTACAGAGTAACTCCCGTTGGGTGCTGTTAACGGTGGAG 720  
Db 1804 TTGTTGTATCTGATAGAGTACAGAGTAACTCCCGTTGGGTGCTGTTAACGGTGGAG 1863  
Qy 721 CGAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGCGCCACAGACATAAATAGCTGAC 780  
Db 1864 CGAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGCGCCACAGACATAAATAGCTGAC 1923  
Qy 781 AGACTAACAGACTGTTCTTCCATGGGTCTTTCTGCGAGTCACCGTCTGTCAC 834  
Db 1924 AGACTAACAGACTGTTCTTCCATGGGTCTTTCTGCGAGTCACCGTCTGTCAC 1977

RESULT 2

US-09-132-808-1  
; Sequence 1, Application US/09132808  
; Patent No. 6197332  
; GENERAL INFORMATION:  
; APPLICANT: Ronald Zuckermann et al.  
; TITLE OF INVENTION: Lipid-Conjugated Polyamide Compounds and Related  
; TITLE OF INVENTION: Compositions and Methods Thereof  
; NUMBER OF SEQUENCES: 1  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Chiron Corporation  
; STREET: 4560 Horton Street  
; CITY: Emeryville  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 94608-2916  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/132,808  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fujita, Sharon M.  
; REGISTRATION NUMBER: 38,459  
; REFERENCE/DOCKET NUMBER: 1387.002  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (510) 923-2706  
; TELEFAX: (510) 655-3542  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 4328 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
US-09-132-808-1

Query Match 99.2%; Score 827.6; DB 3; Length 4328;  
Best Local Similarity 99.5%; Pred. No. 1.4e-266;  
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
Qy 1 GTAAAGTACCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCTATGCTATGCTATGCT 60  
Db 815 GTAAAGTACCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCTATGCTATGCTATGCT 874  
Qy 61 TTTTGGCTTTGGGCGCTATACACCCCGCTCTTATGCTATGCTATGCTATGCTATGCTATGCTATGCT 120  
Db 875 TTTTGGCTTTGGGCGCTATACACCCCGCTCTTATGCTATGCTATGCTATGCTATGCTATGCTATGCT 934  
Qy 121 CCTATAGGTGTGGGTATTGACCATATTGACCACTCCCTATTTGCTATGCTATGCTATGCTATGCTATGCT 180  
Db 935 CCTATAGGTGTGGGTATTGACCATATTGACCACTCCCTATTTGCTATGCTATGCTATGCTATGCTATGCT 994  
Qy 181 ATTACTAATCCATAAATGCTGCTTTGCGCAACTATCTTATGCTATGCTATGCTATGCTATGCTATGCTATGCT 240  
Db 995 ATTACTAATCCATAAATGCTGCTTTGCGCAACTATCTTATGCTATGCTATGCTATGCTATGCTATGCTATGCT 1054  
Qy 241 TCTGTCTCTCAGAGACTGACACGAGCTCTGCTATTTTACAGGATGGGCTCCATTTATTTAT 300  
Db 1055 TCTGTCTCTCAGAGACTGACACGAGCTCTGCTATTTTACAGGATGGGCTCCATTTATTTAT 1114  
Qy 301 TTACAAATTCACATATACAAACAGCGCTCCCGGTCGCCGAGTTTTTTATTAACATAG 360  
Db 1115 TTACAAATTCACATATACAAACAGCGCTCCCGGTCGCCGAGTTTTTTATTAACATAG 1174  
Qy 361 CGTGGGATCTCCGACATCTCGGTACGTGTTCCGGACATGGGCTCTTCTCCGTTAGCGGC 420  
Db 1175 CGTGGGATCTCCGACATCTCGGTACGTGTTCCGGACATGGGCTCTTCTCCGTTAGCGGC 1234  
Qy 421 GGAGCTTCCACATCCGAGCGCTTGGTCCCATGCTCCAGCGGCTCATGCTGCTCGGCGAGC 480  
Db 1235 GGAGCTTCCACATCCGAGCGCTTGGTCCCATGCTCCAGCGGCTCATGCTGCTCGGCGAGC 1294  
Qy 481 TCCTTGTCTCTAACAGTGGAGGCGAGACTTAGGCACAGCAATGCGCCACACACACAGT 540  
Db 1295 TCCTTGTCTCTAACAGTGGAGGCGAGACTTAGGCACAGCAATGCGCCACACACACAGT 1354  
Qy 541 GTCCCGCACAGGCGGTGGGCTAGGCTATGCTGCTGAAATGAGCTCGGAGATTGGGCT 600  
Db 1355 GTCCCGCACAGGCGGTGGGCTAGGCTATGCTGCTGAAATGAGCTCGGAGATTGGGCT 1414  
Qy 601 CGCACCGTGACGACAGATGGAAGACTTAAGGCGAGCGGCGAGAGAGATGCGAGCGAGCTGAG 660  
Db 1415 CGCACCTGGACGACAGATGGAAGACTTAAGGCGAGCGGCGAGAGAGATGCGAGCGAGCTGAG 1474  
Qy 661 TTGTTGTATTCTGATAGAGTACAGAGTAACTCCCGTTGGGTGCTGTTAACGGTGGAGG 720  
Db 1475 TTGTTGTATTCTGATAGAGTACAGAGTAACTCCCGTTGGGTGCTGTTAACGGTGGAGG 1534  
Qy 721 GCAGTGTAGTCTGACAGTACTCTGCTGCGCGCGCGCCACAGACATAAATAGCTGAC 780  
Db 1535 GCAGTGTAGTCTGACAGTACTCTGCTGCGCGCGCGCCACAGACATAAATAGCTGAC 1594  
Qy 781 AGACTAACAGACTGTTCTTCCATGGGTCTTTTCTGCGAGTCACCGTCTGTCGAC 834  
Db 1595 AGACTAACAGACTGTTCTTCCATGGGTCTTTTCTGCGAGTCACCGTCTGTCGAC 1648

RESULT 3

US-08-910-647-2  
; Sequence 2, Application US/08910647  
; Patent No. 6251433  
; GENERAL INFORMATION:  
; APPLICANT: Zuckermann et al.  
; TITLE OF INVENTION: Compositions and Methods for  
; TITLE OF INVENTION: Polynucleotide Delivery  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Chiron Corporation

STREET: 4560 Horton Street  
CITY: Emeryville  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 94608-2916  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
FILING DATE: US/08/910,647  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Fujita, Sharon M.  
REGISTRATION NUMBER: 38,459  
REFERENCE/DOCKET NUMBER: 1218.002  
TELEPHONE: (510) 923-2706  
TELEFAX: (510) 655-3542  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 4328 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-08-910-647-2

Query Match 99.2%; Score 827.6; DB 3; Length 4328;  
Best Local Similarity 99.5%; Pred. No. 1.4e-266;  
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GTAACTACCCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGATGCTTACTG 60  
DB 815 GTAACTACCCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGATGCTTACTG 874

QY 61 TTTTGGCTTTGGGCTTATACACCCCGCTCTTATGCTATAGTGTATAGCTTAG 120  
DB 875 TTTTGGCTTTGGGCTTATACACCCCGCTCTTATGCTATAGTGTATAGCTTAG 934

QY 121 CCTATAGTGTGGTATTGACCACTTATGACCACTCCCTATTGCTGACGACTTTC 180  
DB 935 CCTATAGTGTGGTATTGACCACTTATGACCACTCCCTATTGCTGACGACTTTC 994

QY 181 ATTACTAATCCATAACATGCTCTTTGCCAACATCTCTATTGGCTATATGCCAATAC 240  
DB 995 ATTACTAATCCATAACATGCTCTTTGCCAACATCTCTATTGGCTATATGCCAATAC 1054

QY 241 TCTGTCTTCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGCTCCATTATTAT 300  
DB 1055 TCTGTCTTCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGCTCCATTATTAT 1114

QY 301 TTACAAATTCACATATACACACGGCTCCCGTCCCGCGAGTTTATTTAAACATAG 360  
DB 1115 TTACAAATTCACATATACACACGGCTCCCGTCCCGCGAGTTTATTTAAACATAG 1174

QY 361 CGTGGGATCTCCGACATCTCGGGTACGTGTTCGGACATGGCTCTTCTCCGGTAGCGGC 420  
DB 1175 CGTGGGATCTCCGACATCTCGGGTACGTGTTCGGACATGGCTCTTCTCCGGTAGCGGC 1234

QY 421 GGAGCTTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGGTCGCTCGGCAGC 480  
DB 1235 GGAGCTTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGGTCGCTCGGCAGC 1294

QY 481 TCCTTGCTCTCAAGTGGAGGCGCAGACTTAGGCACAGCAATGCCACACACCAAGT 540  
DB 1295 TCCTTGCTCTCAAGTGGAGGCGCAGACTTAGGCACAGCAATGCCACACCAAGT 1354

QY 541 GTCCCGCACAGGCGCGGTAGGGTATGTCTGAAATAGCTCGGAGATTGGGCT 600  
DB 1355 GTCCCGCACAGGCGCGGTAGGGTATGTCTGAAATAGCTCGGAGATTGGGCT 1414

QY 601 CGCACCTGACGCGAGATGAAGACTTTAAGCAGCGGAGAGAGATGACGAGCTGAG 660  
DB 1415 CGCACCTGACGCGAGATGAAGACTTTAAGCAGCGGAGAGAGATGACGAGCTGAG 1474

QY 661 TTGCTGTATTCTGATGAAGAGTCAAGGTAACTCCGTTGGGTGCTGTTAACGGTGGAGG 720  
DB 1475 TTGCTGTATTCTGATGAAGAGTCAAGGTAACTCCGTTGGGTGCTGTTAACGGTGGAGG 1534

QY 721 GCAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGGCGGCCACACAGACATAATAGCTGAC 780  
DB 1535 GCAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGGCGGCCACACAGACATAATAGCTGAC 1594

QY 781 AGACTAACAGACTGTTCCCTTTCATGAGGTCTTTTCTGCACTACCGTCGTCGAC 834  
DB 1595 AGACTAACAGACTGTTCCCTTTCATGAGGTCTTTTCTGCACTACCGTCGTCGAC 1648

## RESULT 4

US-09-620-925-2  
; Sequence 2, Application US/09620925  
; Patent No. 6468986  
; GENERAL INFORMATION:  
; APPLICANT: Zuckermann et al.  
; TITLE OF INVENTION: Compositions and Methods for  
; POLYNUCLEOTIDE DELIVERY  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Chiron Corporation  
; STREET: 4560 Horton Street  
; CITY: Emeryville  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 94608-2916  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/620,925  
; FILING DATE: 21-Jul-2000  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/910,647  
; FILING DATE: <Unknown>  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fujita, Sharon M.  
; REGISTRATION NUMBER: 38,459  
; REFERENCE/DOCKET NUMBER: 1218.002  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (510) 923-2706  
; TELEFAX: (510) 655-3542  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 4328 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
US-09-620-925-2

Query Match 99.2%; Score 827.6; DB 4; Length 4328;  
Best Local Similarity 99.5%; Pred. No. 1.4e-266;  
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GTAACTACCCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGATGCTTACTG 60  
DB 815 GTAACTACCCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGATGCTTACTG 874

QY 61 TTTTGGCTTTGGGCTTATACACCCCGCTCTTATGCTATAGTGTATAGCTTAG 120

Db 875 TTTTGGCTTGGGGCTATACACCCCGCTCCTTATGCTATAGGTGATGATAGCTTAG 934  
Qy 121 CCTATAGGTGGGTATTGACCAATATTGACCACTCCCTTATGCTAGGTGAGGATACCTTTC 180  
Db 935 CCTATAGGTGGGTATTGACCAATATTGACCACTCCCTTATGCTAGGTGAGGATACCTTTC 994  
Qy 181 ATTACTAATCATATACATGCTCTTTGGCCAACTATCTTATGCTATATGCTATATGCTATAT 240  
Db 995 ATTACTAATCATATACATGCTCTTTGGCCAACTATCTTATGCTATATGCTATATGCTATAT 1054  
Qy 241 TCTGCTCTTCCAGAGCTGACACCGGCTCTGTTATTTTACAGGATGGGTCCTTATTTAT 300  
Db 1055 TCTGCTCTTCCAGAGCTGACACCGGCTCTGTTATTTTACAGGATGGGTCCTTATTTAT 1114  
Qy 301 TTACAAATTCATATATCAACACCGGCTCCCGGTCGCCGAGTTTTTATTTAAACATAG 360  
Db 1115 TTACAAATTCATATATCAACACCGGCTCCCGGTCGCCGAGTTTTTATTTAAACATAG 1174  
Qy 361 CGTGGGATCTCCGACATCTCGGGTACGTGTTCCGGACATGGGCTCTTCTCGGTAGCGGC 420  
Db 1175 CGTGGGATCTCCGACATCTCGGGTACGTGTTCCGGACATGGGCTCTTCTCGGTAGCGGC 1234  
Qy 421 GGAGCTTCCACATCCGAGCCTCGGTCCCATGCTCCAGCGGCTCATGGTCGTCGGGCT 480  
Db 1235 GGAGCTTCCACATCCGAGCCTCGGTCCCATGCTCCAGCGGCTCATGGTCGTCGGGCT 1294  
Qy 481 TCCTTGTCTTCAACAGTGAGGCGCAGACTTATAGGCACAGCAATGCCACACCACTGAG 540  
Db 1295 TCCTTGTCTTCAACAGTGAGGCGCAGACTTATAGGCACAGCAATGCCACACCACTGAG 1354  
Qy 541 GTGCGGACAAAGGCGGTGGGCTAGGTATGCTGTAAGATGAGCTCGGAGATGGGCT 600  
Db 1355 GTGCGGACAAAGGCGGTGGGCTAGGTATGCTGTAAGATGAGCTCGGAGATGGGCT 1414  
Qy 601 CGCACCGTGACGACATGGAAGACTTAAAGGACGCGGCGGACAGAAAGATGACGAGCTGAG 660  
Db 1415 CGCACCGTGACGACATGGAAGACTTAAAGGACGCGGCGGACAGAAAGATGACGAGCTGAG 1474  
Qy 661 TTGTTGTATTCTGATAAGAGTCAGAGTAACTCCCGTTGCGGTGCTGTTAAACGTTGGAG 720  
Db 1475 TTGTTGTATTCTGATAAGAGTCAGAGTAACTCCCGTTGCGGTGCTGTTAAACGTTGGAG 1534  
Qy 721 CGAGTGTAGTCTGACAGTACTCGTTGCTGCGCGCGGCGGACAGAAAGATGACGAGCTGAC 780  
Db 1535 CGAGTGTAGTCTGACAGTACTCGTTGCTGCGCGCGGCGGACAGAAAGATGACGAGCTGAC 1594  
Qy 781 AGACTAACAGACTGTTCTTCCATGAGGCTTTTCTGAGTACCGTCTGAGC 834  
Db 1595 AGACTAACAGACTGTTCTTCCATGAGGCTTTTCTGAGTACCGTCTGAGC 1648

RESULT 5  
US-09-620-260-1  
; Sequence 1, Application US/09620260  
; Patent No. 6569450  
; GENERAL INFORMATION:  
; APPLICANT: Ronald Zuckermann et al.  
; TITLE OF INVENTION: Lipid-Conjugated Polyamide Compounds and Related  
; Compositions and Methods Thereof  
; NUMBER OF SEQUENCES: 1  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: Chiron Corporation  
; STREET: 4560 Horton Street  
; City: Emeryville  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 94608-2916  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/620,260  
; FILING DATE: 09-Oct-2001  
; CLASSIFICATION: <Unknown>  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fujita, Sharon M.  
; REGISTRATION NUMBER: 38,459  
; REFERENCE/DOCKET NUMBER: 1387.002  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (510) 923-2706  
; TELEFAX: (510) 655-3542  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 4328 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
; US-09-620-260-1

Query Match 99.2%; Score 827.6; DB 4; Length 4328;  
Best Local Similarity 99.5%; Pred. No. 1.4e-266;  
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
Qy 1 GTAAAGTACCGCCTATAGACTCTATAGGCACACCCCTTGGCTCTTATGATGCTATAGTG 60  
Db 815 GTAAAGTACCGCCTATAGACTCTATAGGCACACCCCTTGGCTCTTATGATGCTATAGTG 874  
Qy 61 TTTTGGCTTGGGCGCTATACACCCCGCTCTTATGCTATAGGTGATGCTATAGCTTAG 120  
Db 875 TTTTGGCTTGGGCGCTATACACCCCGCTCTTATGCTATAGGTGATGCTATAGCTTAG 934  
Qy 121 CCTATAGGTGCGGTATTGACCAATATTGACCACTATCTATGCTATAGGTGAGGATCTTTTC 180  
Db 935 CCTATAGGTGCGGTATTGACCAATATTGACCACTATCTATGCTATAGGTGAGGATCTTTTC 994  
Qy 181 ATTACTAATCCATAAATGCTCTTTGCGCACTATCTATGCTATAGGTGAGGATCTTTTC 240  
Db 995 ATTACTAATCCATAAATGCTCTTTGCGCACTATCTATGCTATAGGTGAGGATCTTTTC 1054  
Qy 241 TCTGCTCTTCCAGAGCTGACACCGGCTCTGTTATTTTACAGGATGGGTCCTTATTTAT 300  
Db 1055 TCTGCTCTTCCAGAGCTGACACCGGCTCTGTTATTTTACAGGATGGGTCCTTATTTAT 1114  
Qy 301 TTACAAATTCATATATCAACACCGGCTCCCGGTCGCCGAGTTTTTATTTAAACATAG 360  
Db 1115 TTACAAATTCATATATCAACACCGGCTCCCGGTCGCCGAGTTTTTATTTAAACATAG 1174  
Qy 361 CGTGGGATCTCCGACATCTCGGGTACGTGTTCCGGACATGGGCTCTTCTCGGTAGCGGC 420  
Db 1175 CGTGGGATCTCCGACATCTCGGGTACGTGTTCCGGACATGGGCTCTTCTCGGTAGCGGC 1234  
Qy 421 GGAGCTTCCACATCCGAGCCTCGGTCCCATGCTCCAGCGGCTCATGGTCGTCGGGCT 480  
Db 1235 GGAGCTTCCACATCCGAGCCTCGGTCCCATGCTCCAGCGGCTCATGGTCGTCGGGCT 1294  
Qy 481 TCCTTGTCTTCAACAGTGAGGCGCAGACTTATAGGCACAGCAATGCCACACCACTGAG 540  
Db 1295 TCCTTGTCTTCAACAGTGAGGCGCAGACTTATAGGCACAGCAATGCCACACCACTGAG 1354  
Qy 541 GTGCGGACAAAGGCGGTGGGCTAGGTATGCTGTAAGATGAGCTCGGAGATGGGCT 600  
Db 1355 GTGCGGACAAAGGCGGTGGGCTAGGTATGCTGTAAGATGAGCTCGGAGATGGGCT 1414  
Qy 601 CGCACCGTGACGACATGGAAGACTTAAAGGACGCGGCGGACAGAAAGATGACGAGCTGAG 660  
Db 1415 CGCACCGTGACGACATGGAAGACTTAAAGGACGCGGCGGACAGAAAGATGACGAGCTGAG 1474  
Qy 661 TTGTTGTATTCTGATAAGAGTCAGAGTAACTCCCGTTGCGGTGCTGTTAAACGTTGGAG 720  
Db 1475 TTGTTGTATTCTGATAAGAGTCAGAGTAACTCCCGTTGCGGTGCTGTTAAACGTTGGAG 1534  
Qy 721 GCAGTGTAGTCTGACAGTACTCTGTTGCTGCGCGCGGCGGACAGAAAGATGACGAGCTGAC 780



Db 1535 GCAGTGTAGTCTGAGCAGTACTCGTTGCTCCGCGCGCCACGACATAATAGCTGAC 1594  
Qy 781 AGACTAACAGACTGTTCTTCCATGGGTCTTTTCTGCACTACCGTCTGTCGAC 834  
Db 1595 AGACTAACAGACTGTTCTTCCATGGGTCTTTTCTGCACTACCGTCTGTCGAC 1648

RESULT 6  
US-09-620-259-1  
; Sequence 1, Application US/09620259  
; Patent No. 6572881  
; GENERAL INFORMATION:  
; APPLICANT: Ronald Zuckermann et al.  
; TITLE OF INVENTION: Lipid-Conjugated Polyamide Compounds and Related  
; Compositions and Methods Thereof  
; NUMBER OF SEQUENCES: 1  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Chiron Corporation  
; STREET: 4560 Horton Street  
; CITY: Emeryville  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 94608-2916  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/620,259  
; FILING DATE: 03-Oct-2001  
; CLASSIFICATION: <Unknown>  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fujita, Sharon M.  
; REGISTRATION NUMBER: 38,459  
; REFERENCE/DOCKET NUMBER: 1387,002  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (510) 923-2706  
; TELEFAX: (510) 655-3542  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 4328 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
US-09-620-259-1

Query Match 99.2%; Score 827.6; DB 4; Length 4328;  
Best Local Similarity 99.5%; Pred. No. 1.4e-266;  
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 GTAAGTACCGCCTATAGACTCTATAGGCACACCCCTTGGCTCTTATGCATGCTACTG 60  
Db 815 GTAAGTACCGCCTATAGACTCTATAGGCACACCCCTTGGCTCTTATGCATGCTACTG 874  
Qy 61 TTTTGGCTTGGGGCTTATACACCCCGCTCTTATGCTATAGGTGATGGTATAGCTTAG 120  
Db 875 TTTTGGCTTGGGGCTTATACACCCCGCTCTTATGCTATAGGTGATGGTATAGCTTAG 934  
Qy 121 CCTATAGGTGGGTATTGACCACTATTGACCACTCCCTATTTGGTGACGATACTTTCC 180  
Db 935 CCTATAGGTGGGTATTGACCACTATTGACCACTCCCTATTTGGTGACGATACTTTCC 994  
Qy 181 ATTACTAATCATTAACATGCTCTTTGCCCACTATCTTATTTGGTATATGCAATAC 240  
Db 995 ATTACTAATCATTAACATGCTCTTTGCCCACTATCTTATTTGGTATATGCAATAC 1054  
Qy 241 TCTGTCTCTCAGAGCTGACGAGCTCTGTATTTTACAGGATGGGTCCATTATTAT 300  
Db 1055 TCTGTCTCTCAGAGCTGACGAGCTCTGTATTTTACAGGATGGGTCCATTATTAT 1114

Qy 301 TTACAAATTCACATATACAAACACCGCTCCCGCTGCCCGCAGTTTATTATAACATAG 360  
Db 1115 TTACAAATTCACATATACAAACACCGCTCCCGCTGCCCGCAGTTTATTATAACATAG 1174  
Qy 361 CGTGGGATCTCGACATCTCGGGTACGTGTCCGGACATGGGCTCTTCTCCGGTAGCGGC 420  
Db 1175 CGTGGGATCTCGACATCTCGGGTACGTGTCCGGACATGGGCTCTTCTCCGGTAGCGGC 1234  
Qy 421 GGAGCTTCCACATCCGAGCGCTGGTCCCATGCTCCAGCGGCTCATGGTCTCGCGCAGC 480  
Db 1235 GGAGCTTCCACATCCGAGCGCTGGTCCCATGCTCCAGCGGCTCATGGTCTCGCGCAGC 1294  
Qy 481 TCCTTCTCTTAACAGTGGAGCCAGACTTAGGCACAGCAATGCCACCACACACAGT 540  
Db 1295 TCCTTCTCTTAACAGTGGAGCCAGACTTAGGCACAGCAATGCCACCACACACAGT 1354  
Qy 541 GTCCCGCACAAAGCGCTGGCGGTAGGTATGTCTCTGAAATAGAGCTCGGAGATTGGGCT 600  
Db 1355 GTCCCGCACAAAGCGCTGGCGGTAGGTATGTCTCTGAAATAGAGCTCGGAGATTGGGCT 1414  
Qy 601 CGCACCGTGACGAGATGAAGACTTTAAGCAGCGCGCAGAGAGATGCAAGGAGCTGAG 660  
Db 1415 CGCACCGTGACGAGATGAAGACTTTAAGCAGCGCGCAGAGAGATGCAAGGAGCTGAG 1474  
Qy 661 TTGTTGTTATTCGATAAGAGTACAGAGTAACTCCCGTTGGGTGCTGTTAACGGTGGAGG 720  
Db 1475 TTGTTGTTATTCGATAAGAGTACAGAGTAACTCCCGTTGGGTGCTGTTAACGGTGGAGG 1534  
Qy 721 GCAGTCTAGTCTGAGCAGTACTCGTTGCTGCGCGCGCGCCACGACAGATAATAGCTGAC 780  
Db 1535 GCAGTCTAGTCTGAGCAGTACTCGTTGCTGCGCGCGCGCCACGACAGATAATAGCTGAC 1594  
Qy 781 AGACTAACAGACTGTTCTTCCATGGGTCTTTTCTGCACTACCGTCTGTCGAC 834  
Db 1595 AGACTAACAGACTGTTCTTCCATGGGTCTTTTCTGCACTACCGTCTGTCGAC 1648

RESULT 7  
US-08-910-647-4  
; Sequence 4, Application US/08910647  
; Patent No. 6251433  
; GENERAL INFORMATION:  
; APPLICANT: Zuckermann et al.  
; TITLE OF INVENTION: Compositions and Methods for  
; TITLE OF INVENTION: Polynucleotide Delivery  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Chiron Corporation  
; STREET: 4560 Horton Street  
; CITY: Emeryville  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 94608-2916  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/910,647  
; FILING DATE:  
; CLASSIFICATION: 514  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fujita, Sharon M.  
; REGISTRATION NUMBER: 38,459  
; REFERENCE/DOCKET NUMBER: 1218,002  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (510) 923-2706  
; TELEFAX: (510) 655-3542  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 4818 base pairs

; TYPE: nucleic acid									
; STRANDEDNESS: single									
; TOPOLOGY: linear									
; MOLECULE TYPE: DNA (genomic)									
US-08-910-647-4									
Query Match 99.2%; Score 827.6; DB 3; Length 4818;									
Best Local Similarity 99.5%; Pred. No. 1.5e-266;									
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;									
Qy	1	GTAAGTACCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCATGCTACTG	60						
Db	818	GTAAGTACCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCATGCTACTG	877						
Qy	61	TTTTTGGCTTGGGCGCTATACACCCCGCTCTTATGCTATAGTGTATGCTTAG	120						
Db	878	TTTTTGGCTTGGGCGCTATACACCCCGCTCTTATGCTATAGTGTATGCTTAG	937						
Qy	121	CCTATAGTGTGGGCTTATGACCACTTATGACCACTCCCTATTTGGTGAGTACTTTCC	180						
Db	938	CCTATAGTGTGGGCTTATGACCACTTATGACCACTCCCTATTTGGTGAGTACTTTCC	997						
Qy	181	ATTACTAATTCATATAACATGGCTCTTTGCCACCACTCTCTATTTGGCTATATGCAATAC	240						
Db	998	ATTACTAATTCATATAACATGGCTCTTTGCCACCACTCTCTATTTGGCTATATGCAATAC	1057						
Qy	241	TCTGTCTTTCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGCTCCATTTATTAT	300						
Db	1058	TCTGTCTTTCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGCTCCATTTATTAT	1117						
Qy	301	TTACAAATTCATATACAAACACCGCGTCCCGTGCACGAGTGGGCTCCATTTATTAT	360						
Db	1118	TTACAAATTCATATACAAACACCGCGTCCCGTGCACGAGTGGGCTCCATTTATTAT	1177						
Qy	361	CGTGGATCTCGGATCTCGGATCTCGGATCTCGGATCTCGGATCTCGGATCTCGGAT	420						
Db	1178	CGTGGATCTCGGATCTCGGATCTCGGATCTCGGATCTCGGATCTCGGATCTCGGAT	1237						
Qy	421	GGAGCTTCCACATCCGAGCCCTTGGTCCCATGCTCCAGCGGCTCATGTCGGTCCGAGC	480						
US-09-620-925-4									
Query Match 99.2%; Score 827.6; DB 4; Length 4818;									
Best Local Similarity 99.5%; Pred. No. 1.5e-266;									
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;									
Qy	1	GTAAGTACCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCATGCTACTG	60						
Db	818	GTAAGTACCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCATGCTACTG	877						
Qy	61	TTTTTGGCTTGGGCGCTATACACCCCGCTCTTATGCTATAGTGTATGCTTAG	120						
Db	878	TTTTTGGCTTGGGCGCTATACACCCCGCTCTTATGCTATAGTGTATGCTTAG	937						
Qy	121	CCTATAGTGTGGGCTTATGACCACTTATGACCACTCCCTATTTGGTGAGTACTTTCC	180						
Db	938	CCTATAGTGTGGGCTTATGACCACTTATGACCACTCCCTATTTGGTGAGTACTTTCC	997						
Qy	181	ATTACTAATTCATATAACATGGCTCTTTGCCACCACTCTCTATTTGGCTATATGCAATAC	240						
Db	998	ATTACTAATTCATATAACATGGCTCTTTGCCACCACTCTCTATTTGGCTATATGCAATAC	1057						
Qy	241	TCTGTCTTTCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGCTCCATTTATTAT	300						
Db	1058	TCTGTCTTTCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGCTCCATTTATTAT	1117						
Qy	301	TTACAAATTCATATACAAACACCGCGTCCCGTGCACGAGTGGGCTCCATTTATTAT	360						
Db	1118	TTACAAATTCATATACAAACACCGCGTCCCGTGCACGAGTGGGCTCCATTTATTAT	1177						
Qy	361	CGTGGATCTCGGATCTCGGATCTCGGATCTCGGATCTCGGATCTCGGATCTCGGAT	420						
Db	1178	CGTGGATCTCGGATCTCGGATCTCGGATCTCGGATCTCGGATCTCGGATCTCGGAT	1237						
Qy	421	GGAGCTTCCACATCCGAGCCCTTGGTCCCATGCTCCAGCGGCTCATGTCGGTCCGAGC	480						
Db	1238	GGAGCTTCCACATCCGAGCCCTTGGTCCCATGCTCCAGCGGCTCATGTCGGTCCGAGC	1297						
Qy	481	TCCTTGTCTTAAACAGTGGAGCCAGACTTATAGGCACAGCACAATGCCACCACCACT	540						
Db	1298	TCCTTGTCTTAAACAGTGGAGCCAGACTTATAGGCACAGCACAATGCCACCACCACT	1357						
Qy	541	GTGCGCACAAGGCGCTGGGCTAGGGTATGTGTCTGAAATGAGCTCGGATGGGCT	600						
Db	1358	GTGCGCACAAGGCGCTGGGCTAGGGTATGTGTCTGAAATGAGCTCGGATGGGCT	1417						
Qy	601	CGCACCGTGCACAGATGGAGACTTAAAGGCAGCGGAGAGAGATGCAGGAGCTGAG	660						
Db	1418	CGCACCGTGCACAGATGGAGACTTAAAGGCAGCGGAGAGAGATGCAGGAGCTGAG	1477						
Qy	661	TTGTGTGATTTCTGATAAGAGTCAAGGTAACCTCCCGTTGGCTGTCTTAACGGTGGAGG	720						
Db	1478	TTGTGTGATTTCTGATAAGAGTCAAGGTAACCTCCCGTTGGCTGTCTTAACGGTGGAGG	1537						
Qy	721	CGAGTGTAGTCTGAGCAGTACTCGTGTGCGCGCGGCGCCACACAGACATATAGCTGAC	780						
Db	1538	CGAGTGTAGTCTGAGCAGTACTCGTGTGCGCGCGGCGCCACACAGACATATAGCTGAC	1597						
Qy	781	AGACTAAGACAGTGTTCCTTTCCATGGGCTCTTTCTGACAGTCAACCGTCTGACAC	834						
Db	1598	AGACTAAGACAGTGTTCCTTTCCATGGGCTCTTTCTGACAGTCAACCGTCTGACAC	1651						
RESULT 8									
US-09-620-925-4									
; Sequence 4, Application US/09620925									
; Patent No. 648986									
; GENERAL INFORMATION:									
; APPLICANT: Zuckermann et al.									

TITLE OF INVENTION: Compositions and Methods for Polynucleotide Delivery

NUMBER OF SEQUENCES: 4

CORRESPONDENCE ADDRESS:

ADDRESSEE: Chiron Corporation

STREET: 4560 Horton Street

CITY: Emeryville

STATE: California

COUNTRY: U.S.A.

ZIP: 94608-2916

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA: US/09/620,925

APPLICATION NUMBER: 21-Jul-2000

FILING DATE: 21-Jul-2000

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/910,647

FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: Fujita, Sharon M.

REGISTRATION NUMBER: 38,459

REFERENCE/DOCKET NUMBER: 1218.002

TELECOMMUNICATION INFORMATION:

TELEPHONE: (510) 923-2706

TELEFAX: (510) 655-3542

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 4818 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

SEQUENCE DESCRIPTION: SEQ ID NO: 4:

US-09-620-925-4

Query Match 99.2%; Score 827.6; DB 4; Length 4818;

Best Local Similarity 99.5%; Pred. No. 1.5e-266;

Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 GTAAGTACCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCATGCTACTG 60

Db 818 GTAAGTACCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCATGCTACTG 877

Qy 61 TTTTGGCTTGGGCGCTATACACCCCGCTCTTATGCTATAGTGTATGCTTAG 120

Db 878 TTTTGGCTTGGGCGCTATACACCCCGCTCTTATGCTATAGTGTATGCTTAG 937

Qy 121 CCTATAGTGTGGGCTTATGACCACTTATGACCACTCCCTATTTGGTGAGTACTTTCC 180

Db 938 CCTATAGTGTGGGCTTATGACCACTTATGACCACTCCCTATTTGGTGAGTACTTTCC 997

Qy 181 ATTACTAATTCATATAACATGGCTCTTTGCCACCACTCTCTATTTGGCTATATGCAATAC 240

Db 998 ATTACTAATTCATATAACATGGCTCTTTGCCACCACTCTCTATTTGGCTATATGCAATAC 1057

Qy 241 TCTGTCTTTCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGCTCCATTTATTAT 300

Db 1058 TCTGTCTTTCAGAGACTGACACGGACTCTGTATTTTACAGGATGGGCTCCATTTATTAT 1117

Qy 301 TTACAAATTCATATACAAACACCGCGTCCCGTGCACGAGTGGGCTCCATTTATTAT 360

Db 1118 TTACAAATTCATATACAAACACCGCGTCCCGTGCACGAGTGGGCTCCATTTATTAT 1177

Qy 361 CGTGGATCTCGGATCTCGGATCTCGGATCTCGGATCTCGGATCTCGGATCTCGGAT 420

Db 1178 CGTGGATCTCGGATCTCGGATCTCGGATCTCGGATCTCGGATCTCGGATCTCGGAT 1237

Qy 421 GGAGCTTCCACATCCGAGCCCTTGGTCCCATGCTCCAGCGGCTCATGTCGGTCCGAGC 480

Db 1238 GGAGCTTCCACATCCGAGCCCTGGTCCCATCCGTCAGCGGCTCATGGTCGCTGGGAGC 1297  
Qy 481 TCCTTGCTCTTAACAGTGGAGGCGAGACTTAGGCACAGCAATAGCCACCAACCAAGT 540  
Db 1298 TCCTTGCTCTTAACAGTGGAGGCGAGACTTAGGCACAGCAATAGCCACCAACCAAGT 1357  
Qy 541 GTCCGCCACAGGCGGCTGGGCTAGGCTAGTGTCTGAAATAGCTCGGAGATGGGCT 600  
Db 1358 GTCCGCCACAGGCGGCTGGGCTAGGCTAGTGTCTGAAATAGCTCGGAGATGGGCT 1417  
Qy 601 CGCACCGTGAACGAGATGGAAGACTTAAGGCGAGCGGCGAGAGAGATGCGAGCGAGTGG 660  
Db 1418 CGCACCTGAGCGAGATGGAAGACTTAAGGCGAGCGGCGAGAGAGATGCGAGCGAGTGG 1477  
Qy 661 TTGTGTATTTCTGATGAAGCTGAGAGGTAACCTCCGTTGCGGTGCTGTTAAACGGTGGAG 720  
Db 1478 TTGTGTATTTCTGATGAAGCTGAGAGGTAACCTCCGTTGCGGTGCTGTTAAACGGTGGAG 1537  
Qy 721 GCAGTGTAGTCTGAGGAGTACTGTTGCTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 780  
Db 1538 GCAGTGTAGTCTGAGGAGTACTGTTGCTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1597  
Qy 781 AGACTTAACAGACTGTTCTTCCATGGGCTCTTTCTGCACTACCGCTCGTCGAC 834  
Db 1598 AGACTTAACAGACTGTTCTTCCATGGGCTCTTTCTGCACTACCGCTCGTCGAC 1651

## RESULT 9

US-08-910-647-3  
; Sequence 3, Application US/08910647  
; Patent No. 6251433  
; GENERAL INFORMATION:  
; APPLICANT: Zuckermann et al.  
; TITLE OF INVENTION: Compositions and Methods for  
; TITLE OF INVENTION: Polynucleotide Delivery  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Chiron Corporation  
; STREET: 4560 Horton Street  
; CITY: Emeryville  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 94608-2916  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; FILING DATE: US/08/910,647  
; CLASSIFICATION: 514  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fujita, Sharon M.  
; REGISTRATION NUMBER: 38,459  
; REFERENCE/DOCKET NUMBER: 1218.002  
; TELEPHONE: (510) 923-2706  
; TELEFAX: (510) 655-3542  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 5107 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
US-08-910-647-3

Query Match 99.2%; Score 827.6; DB 3; Length 5107;  
Best Local Similarity 99.5%; Pred. No. 1.6e-266;  
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
Qy 1 GTAAGTACCCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGATGCTACTG 60

Db 818 GTAAGTACCCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGATGCTACTG 877  
Qy 61 TTTTGGCTGGGCGCTATACACCCCGCTCCCTTATGCTATAGGTGATAGCTTAG 120  
Db 878 TTTTGGCTGGGCGCTATACACCCCGCTCCCTTATGCTATAGGTGATAGCTTAG 937  
Qy 121 CCTATAGGTGGGTTATGACCATTTATGACCACTCCCTATTTGGTACGATATTTCC 180  
Db 938 CCTATAGGTGGGTTATGACCATTTATGACCACTCCCTATTTGGTACGATATTTCC 997  
Qy 181 ATTACTAAATCCATAAATGCTCTTTGGCCCAACTATCTCTATTTGGTATATGCAATAC 240  
Db 998 ATTACTAAATCCATAAATGCTCTTTGGCCCAACTATCTCTATTTGGTATATGCAATAC 1057  
Qy 241 TCTGTCTCTTACAGAGCTGACACGGACTCTGTATTTTACAGGATGGGTCCTATTAT 300  
Db 1058 TCTGTCTCTTACAGAGCTGACACGGACTCTGTATTTTACAGGATGGGTCCTATTAT 1117  
Qy 301 TTACAAATTCACATATACAAACCGGCTCCCGTCCCGCAGCTTTTATTTAAACATAG 360  
Db 1118 TTACAAATTCACATATACAAACCGGCTCCCGTCCCGCAGCTTTTATTTAAACATAG 1177  
Qy 361 CGTGGGATCTCCGACATCTCGGCTAGCTGTTCCGGACATGGGCTCTTCCGGTAGCGG 420  
Db 1178 CGTGGGATCTCCGACATCTCGGCTAGCTGTTCCGGACATGGGCTCTTCCGGTAGCGG 1237  
Qy 421 GGAGCTTCCACATCCGAGCGCTGGTCCCATCCATCCAGCGGCTCATGGTCCGTCGGCAGC 480  
Db 1238 GGAGCTTCCACATCCGAGCGCTGGTCCCATCCATCCAGCGGCTCATGGTCCGTCGGCAGC 1297  
Qy 481 TCCTTGCTCTTAACAGTGGAGGCGAGCTTAGGCACAGCAATGCCACACACCAAGT 540  
Db 1298 TCCTTGCTCTTAACAGTGGAGGCGAGCTTAGGCACAGCAATGCCACACCAAGT 1357  
Qy 541 GTGCCGCAAGGCGGCTGGGCTAGGCTAGTGTCTGAAATAGCTCGGAGATGGGCT 600  
Db 1358 GTGCCGCAAGGCGGCTGGGCTAGGCTAGTGTCTGAAATAGCTCGGAGATGGGCT 1417  
Qy 601 CGCACCGTGAACGAGATGGAAGACTTTAAGGCGAGCGGCGGCGGCGGCGGCGGCGGCGG 660  
Db 1418 CGCACCTGGAGCGAGATGGAAGACTTTAAGGCGAGCGGCGGCGGCGGCGGCGGCGG 1477  
Qy 661 TTGTGTATTTCTGATGAAGCTGAGAGTAACTCCGTTGCGGTGCTGTTAAACGGTGGAG 720  
Db 1478 TTGTGTATTTCTGATGAAGCTGAGAGTAACTCCGTTGCGGTGCTGTTAAACGGTGGAG 1537  
Qy 721 GCAGTGTAGTCTGAGCAGTACTCGTTGCTGCGGCGGCGGCGGCGGCGGCGGCGGCGG 780  
Db 1538 GCAGTGTAGTCTGAGCAGTACTCGTTGCTGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1597  
Qy 781 AGACTTAACAGACTGTTCTTCCATGGGCTCTTTCTGCACTACCGCTCGTCGAC 834  
Db 1598 AGACTTAACAGACTGTTCTTCCATGGGCTCTTTCTGCACTACCGCTCGTCGAC 1651

## RESULT 10

US-09-620-925-3  
; Sequence 3, Application US/09620925  
; Patent No. 646896  
; GENERAL INFORMATION:  
; APPLICANT: Zuckermann et al.  
; TITLE OF INVENTION: Compositions and Methods for  
; TITLE OF INVENTION: Polynucleotide Delivery  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Chiron Corporation  
; STREET: 4560 Horton Street  
; CITY: Emeryville  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 94608-2916  
; COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/620,925  
FILING DATE: 21-Jul-2000  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/910,647  
FILING DATE: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Fujita, Sharon M.  
REGISTRATION NUMBER: 38,459  
REFERENCE/DOCKET NUMBER: 1218.002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (510) 923-2706  
TELEFAX: (510) 655-3542  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 5107 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
US-09-620-925-3  
Query Match 99.2%; Score 827.6; DB 4; Length 5107;  
Best Local Similarity 99.5%; Pred. No. 1.6e-266;  
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
QY 1 GTAAGTACCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCATGCTACTG 60  
DB 818 GTAAGTACCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCATGCTACTG 877  
QY 61 TTTTGGCTTGGGGCTATACACCCCGCTCTTATGCTATAGTGTATAGCTTAG 120  
DB 878 TTTTGGCTTGGGGCTATACACCCCGCTCTTATGCTATAGTGTATAGCTTAG 937  
QY 121 CCTATAGTGTGGGTATTGACCACTATTGACCACTCCCTTATGGTGACCATCTTTCC 180  
DB 938 CCTATAGTGTGGGTATTGACCACTATTGACCACTCCCTTATGGTGACCATCTTTCC 997  
QY 181 ATTACTAATCCATAACATGGCTCTTTGGCAACACTCTCTATTTGGCTATATGCCAATAC 240  
DB 998 ATTACTAATCCATAACATGGCTCTTTGGCAACACTCTCTATTTGGCTATATGCCAATAC 1057  
QY 241 TCTGTCTTCAGAGACTGACAGGACTCTGTATTTTACAGGATGGGTCCATTTATTAT 300  
DB 1058 TCTGTCTTCAGAGACTGACAGGACTCTGTATTTTACAGGATGGGTCCATTTATTAT 1117  
QY 301 TTACAAATTCACATATACAAACGCGTCCCGGTGCGCGGAGTTTATTAAACATAG 360  
DB 1118 TTACAAATTCACATATACAAACGCGTCCCGGTGCGCGGAGTTTATTAAACATAG 1177  
QY 361 CGTGGGATCTCGACATCTCGGGTACGCTTCCGACATGGGCTCTTCTCCGGTAGCGGC 420  
DB 1178 CGTGGGATCTCGACATCTCGGGTACGCTTCCGACATGGGCTCTTCTCCGGTAGCGGC 1237  
QY 421 GGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGTCAATGCTGCTCGGACG 480  
DB 1238 GGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGTCAATGCTGCTCGGACG 1297  
QY 481 TCCTTGCTCTTAACAGTGAGGCCAGCTTAGGCACAGCACAATGCCACACCAACCACT 540  
DB 1298 TCCTTGCTCTTAACAGTGAGGCCAGCTTAGGCACAGCACAATGCCACACCAACCACT 1357  
QY 541 GTCCCGCACAGGCCCTGGCGGTAGGATGTGTCTGAAATGAGCTCCGAGATTGGGCT 600  
DB 1358 GTCCCGCACAGGCCCTGGCGGTAGGATGTGTCTGAAATGAGCTCCGAGATTGGGCT 1417  
QY 601 CGCACCGTGCAGAGATGGAAGACTTAAAGCAGCGGACAGAGAAGATGACGGCAGCTGAG 660

1418 CGCACCTGCAGCAGATGGAAGACTTAAAGCAGCGGACAGAGAAGATGACGGCAGCTGAG 1477  
QY 661 TTGTTGTTATCTGATAAGAGTCAAGAGTAAATCCCGTTGCGGTGCTGTAAACGGTGAAGG 720  
DB 1478 TTGTTGTTATCTGATAAGAGTCAAGAGTAAATCCCGTTGCGGTGCTGTAAACGGTGAAGG 1537  
QY 721 GCAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGGCCACACAGACATATAGCTGAC 780  
DB 1538 GCAGTGTAGTCTGAGCAGTACTCGTTGCTGCGCGCGGCCACACAGACATATAGCTGAC 1597  
QY 781 AGACTAAACAGACTGTTCTTCCATGGGTCTTTTCTGCAGTCAACCGTGTGCGAC 834  
DB 1598 AGACTAAACAGACTGTTCTTCCATGGGTCTTTTCTGCAGTCAACCGTGTGCGAC 1651

RESULT 11  
US-09-721-480-2  
Sequence 2, Application US/09721480  
Patent No. 6740323  
GENERAL INFORMATION:  
APPLICANT: Selby, Mark  
APPLICANT: Glazer, Edward  
APPLICANT: Houghton, Michael  
TITLE OF INVENTION: HBV/HCV VIRUS-LIKE PARTICLE  
FILE REFERENCE: PP01635.002  
CURRENT APPLICATION NUMBER: US/09/721,480  
CURRENT FILING DATE: 2000-11-22  
NUMBER OF SEQ ID NOS: 7  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 2  
LENGTH: 5128  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: plasmid  
NAME/KEY: CDS  
LOCATION: (1988) .. (2830)  
US-09-721-480-2  
Query Match 99.2%; Score 827.6; DB 4; Length 5128;  
Best Local Similarity 99.5%; Pred. No. 1.6e-266;  
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
QY 1 GTAAGTACCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCATGCTACTG 60  
DB 1144 GTAAGTACCGCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCATGCTACTG 1203  
QY 61 TTTTGGCTTGGGGCTATACACCCCGCTCTTATGCTATAGTGTATAGCTTAG 120  
DB 1204 TTTTGGCTTGGGGCTATACACCCCGCTCTTATGCTATAGTGTATAGCTTAG 1263  
QY 121 CCTATAGTGTGGGTATTGACCACTATTGACCACTCCCTTATGGTGACGATCTTTCC 180  
DB 1264 CCTATAGTGTGGGTATTGACCACTATTGACCACTCCCTTATGGTGACGATCTTTCC 1323  
QY 181 ATTACTAATCCATAACATGGCTCTTTGCCAACAATCTCTATTTGGCTATATGCCAATAC 240  
DB 1324 ATTACTAATCCATAACATGGCTCTTTGCCAACAATCTCTATTTGGCTATATGCCAATAC 1383  
QY 241 TCTGTCTTCAGAGACTGACAGGACTCTGTATTTTACAGGATGGGTCCATTTATTAT 300  
DB 1384 TCTGTCTTCAGAGACTGACAGGACTCTGTATTTTACAGGATGGGTCCATTTATTAT 1443  
QY 301 TTACAAATTCACATATACAAACGCGTCCCGGTGCGCGGAGTTTATTAAACATAG 360  
DB 1444 TTACAAATTCACATATACAAACGCGTCCCGGTGCGCGGAGTTTATTAAACATAG 1503  
QY 361 CGTGGATCTCCGACATCTCGGGTACGTTTCCGACATGGGCTCTTCTCCGGTAGCGGC 420  
DB 1504 CGTGGATCTCCGACATCTCGGGTACGTTTCCGACATGGGCTCTTCTCCGGTAGCGGC 1563

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QY 421 GGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGGTCTCGGCAGC 480
Db 1564 GGAGCTTCCACATCCGAGCCCTGGTCCCATGCTCCAGCGGCTCATGGTCTCGGCAGC 1623
QY 481 TCCTTGTCTTCAACAGTGGAGGCGCAGACTTATAGGCACAGCAATGCCACACACACAGT 540
Db 1624 TCCTTGTCTTCAACAGTGGAGGCGCAGACTTATAGGCACAGCAATGCCACACACACAGT 1683
QY 541 GTGCCGCAAGGCGGCTGGCGGTAGGGTATGTCTGAAATAGCTCGAGATTTGGGCT 600
Db 1684 GTGCCGCAAGGCGGCTGGCGGTAGGGTATGTCTGAAATAGCTCGAGATTTGGGCT 1743
QY 601 CGCACCGTGACGAGAGTGAAGACTTAAAGCAGCGGCGCAGAGATGCGAGGAGCTGAG 660
Db 1744 CGCACCGTGACGAGAGTGAAGACTTAAAGCAGCGGCGCAGAGATGCGAGGAGCTGAG 1803
QY 661 TTGTTGTATTTCTGATAAGAGTCAAGAGTAACTCCCGTTGGCGTGTGTTAAACGGTGGAGG 720
Db 1804 TTGTTGTATTTCTGATAAGAGTCAAGAGTAACTCCCGTTGGCGTGTGTTAAACGGTGGAGG 1863
QY 721 GCAGTGTAGTCTGAGCAGTACTCGTTGCTGCCGCGGCGCCACACAGACATAATAGCTGAC 780
Db 1864 GCAGTGTAGTCTGAGCAGTACTCGTTGCTGCCGCGGCGCCACACAGACATAATAGCTGAC 1923
QY 781 AGACTAACAGACTGTTCCCTTTCATGGGCTCTTTCTGCACTACCGTCTGTCGAC 834
Db 1924 AGACTAACAGACTGTTCCCTTTCATGGGCTCTTTCTGCACTACCGTCTGTCGAC 1977

RESULT 12
US-09-721-480-4
; Sequence 4, Application US/09721480
; Patent No. 6740323
; GENERAL INFORMATION:
; APPLICANT: Selby, Mark
; APPLICANT: Glazer, Edward
; APPLICANT: Houghton, Michael
; TITLE OF INVENTION: HBV/HCV VIRUS-LIKE PARTICLE
; FILE REFERENCE: PP01635.002
; CURRENT APPLICATION NUMBER: US/09/721,480
; CURRENT FILING DATE: 2000-11-22
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 4
; LENGTH: 5459
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: pCMVII opti
; NAME/KEY: CDS
; LOCATION: (1992)..(3161)
US-09-721-480-4

Query Match 99.2%; Score 827.6; DB 4; Length 5459;
Best Local Similarity 99.5%; Pred. No. 1.7e-266;
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1144 GTAAGTACCGCTATAGACTCTATAGGCACACCCCTTGGCTCTTATGATGCTATAGT 60
Db 1144 GTAAGTACCGCTATAGACTCTATAGGCACACCCCTTGGCTCTTATGATGCTATAGT 1203
QY 61 TTTTGGCTTGGGCTTATACACCCCGCTCTTATGCTATAGGTGATGATAGCTTAG 120
Db 1204 TTTTGGCTTGGGCTTATACACCCCGCTCTTATGCTATAGGTGATGATAGCTTAG 1263
QY 121 CCTATAGGTGTTGGTTATGACCACTTATGACCACTCCCTATGTTGTCAGGATCTTTCC 180
Db 1264 CCTATAGGTGTTGGTTATGACCACTTATGACCACTCCCTATGTTGTCAGGATCTTTCC 1323
QY 181 ATTACTAATCCATAACATGCTCTTTGGCCACAACTATCTCTATTGCTATATGCCAATAC 240
Db 1324 ATTACTAATCCATAACATGCTCTTTGGCCACAACTATCTCTATTGCTATATGCCAATAC 1383
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QY 241 TCTGTCTTTCCAGAGCTGACACGGACTCTGTATTTTTTACAGGATGGGTCATTTATTAT 300
Db 1384 TCTGTCTTTCCAGAGCTGACACGGACTCTGTATTTTTTACAGGATGGGTCATTTATTAT 1443
QY 301 TTACAAATTTACATATACAAACACGCGCTCCCGTCCCGCAGTTTTTTATTAACATAG 360
Db 1444 TTACAAATTTACATATACAAACACGCGCTCCCGTCCCGCAGTTTTTTATTAACATAG 1503
QY 361 CGTGGGATCTCCGACATCTCGGCTAGCTGTTCGGGACATCGGCTCTTCTCCGGTAGCGC 420
Db 1504 CGTGGGATCTCCGACATCTCGGCTAGCTGTTCGGGACATCGGCTCTTCTCCGGTAGCGC 1563
QY 421 GGAGCTTCCACATCCAGGCTTGGTCCCATGCTCCAGCGGCTCATGGTCTCGGCAGC 480
Db 1564 GGAGCTTCCACATCCAGGCTTGGTCCCATGCTCCAGCGGCTCATGGTCTCGGCAGC 1623
QY 481 TCCCTTGTCTTCAACAGTGGAGGCGCAGACTTATAGGCACAGCAATGCCACACACACAGT 540
Db 1624 TCCCTTGTCTTCAACAGTGGAGGCGCAGACTTATAGGCACAGCAATGCCACACACACAGT 1683
QY 541 GTGCCGCAAGGCGGCTGGCGGTAGGGTATGTCTGAAATAGCTCGAGATTTGGGCT 600
Db 1684 GTGCCGCAAGGCGGCTGGCGGTAGGGTATGTCTGAAATAGCTCGAGATTTGGGCT 1743
QY 601 CGCACCGTGACGAGAGTGAAGACTTAAAGCAGCGGCGCAGAGATGCGAGGAGCTGAG 660
Db 1744 CGCACCGTGACGAGAGTGAAGACTTAAAGCAGCGGCGCAGAGATGCGAGGAGCTGAG 1803
QY 661 TTGTTGTATTTCTGATAAGAGTCAAGAGTAACTCCCGTTGGCGTGTGTTAAACGGTGGAGG 720
Db 1804 TTGTTGTATTTCTGATAAGAGTCAAGAGTAACTCCCGTTGGCGTGTGTTAAACGGTGGAGG 1863
QY 721 GCAGTGTAGTCTGAGCAGTACTCGTTGCTGCCGCGGCGCCACACAGACATAATAGCTGAC 780
Db 1864 GCAGTGTAGTCTGAGCAGTACTCGTTGCTGCCGCGGCGCCACACAGACATAATAGCTGAC 1923
QY 781 AGACTAACAGACTGTTCCCTTTCATGGGCTCTTTCTGCACTACCGTCTGTCGAC 834
Db 1924 AGACTAACAGACTGTTCCCTTTCATGGGCTCTTTCTGCACTACCGTCTGTCGAC 1977

RESULT 13
US-09-721-480-6
; Sequence 6, Application US/09721480
; Patent No. 6740323
; GENERAL INFORMATION:
; APPLICANT: Selby, Mark
; APPLICANT: Glazer, Edward
; APPLICANT: Houghton, Michael
; TITLE OF INVENTION: HBV/HCV VIRUS-LIKE PARTICLE
; FILE REFERENCE: PP01635.002
; CURRENT APPLICATION NUMBER: US/09/721,480
; CURRENT FILING DATE: 2000-11-22
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 6
; LENGTH: 5882
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: plasmid
; OTHER INFORMATION: pCMV-II-E2661-sag
; NAME/KEY: CDS
; LOCATION: (1992)..(3584)
US-09-721-480-6

Query Match 99.2%; Score 827.6; DB 4; Length 5882;
Best Local Similarity 99.5%; Pred. No. 1.8e-266;
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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Qy	61	TTTTTGGCTTGGGCCCTATACACCCCGCTCCTTATGCTATATAGGTGATGGTATAGCTTAG	120
Db	1204	TTTTTGGCTTGGGCCCTATACACCCCGCTCCTTATGCTATATAGGTGATGGTATAGCTTAG	1263
Qy	121	CCTATAGGTGTGGGTATTGACCACTAATTATGACCACTCCCTCTATTTGGTGACGATCTTTCC	180
Db	1264	CCTATAGGTGTGGGTATTGACCACTAATTATGACCACTCCCTCTATTTGGTGACGATCTTTCC	1323
Qy	181	ATTACTAATCCATAAACATGGCTCTTTGGCCACAACATCTCTATTGGCTATATGCCAATAC	240
Db	1324	ATTACTAATCCATAAACATGGCTCTTTGGCCACAACATCTCTATTGGCTATATGCCAATAC	1383
Qy	241	TCTGTCTCTTACAGAGACTGACACGGACTCTCTATTATTTTACAGGATGGGTCCATTATTAT	300
Db	1384	TCTGTCTCTTACAGAGACTGACACGGACTCTCTATTATTTTACAGGATGGGTCCATTATTAT	1443
Qy	301	TTACAAATTCACATATACAACACCGCGTCCCCTGGTCCCGCAGTTTTTTATTAAACATAG	360
Db	1444	TTACAAATTCACATATACAACACCGCGTCCCCTGGTCCCGCAGTTTTTTATTAAACATAG	1503
Qy	361	CGTGGGATCTCCGACATCTCGGTACGTGTTCGGACATGGCTCTCTCCGGTAGCGGC	420
Db	1504	CGTGGGATCTCCGACATCTCGGTACGTGTTCGGACATGGCTCTCTCCGGTAGCGGC	1563
Qy	421	GGAGCTTCCACATCCGAGCCCTGTGCCATGCTCCACAGCGGCTCATGGTGGCTCGGCAGC	480
Db	1564	GGAGCTTCCACATCCGAGCCCTGTGCCATGCTCCACAGCGGCTCATGGTGGCTCGGCAGC	1623
Qy	481	TCCTTGCTCCTAAACAGTGGAGGCCAGACTTAGGCACACAGCAATGCCACCAACACAGT	540
Db	1624	TCCTTGCTCCTAAACAGTGGAGGCCAGACTTAGGCACACAGCAATGCCACCAACACAGT	1683
Qy	541	GTGCCGCACAAGCCGCTGGCGGTAGGTATGTGTCTGAAATGAGCTCGGAGATTGGCT	600
Db	1684	GTGCCGCACAAGCCGCTGGCGGTAGGTATGTGTCTGAAATGAGCTCGGAGATTGGCT	1743
Qy	601	CGCACCGTGACGCAGATGGAAGACTTAAGGCAGCGGCAGAGAAGATGACAGCGAGCTGAG	660
Db	1744	CGCACCTGACGCAGATGGAAGACTTAAGGCAGCGGCAGAGAAGATGACAGCGAGCTGAG	1803
Qy	661	TTGTGTATTCTGATAAGAGTCAGAGTTAACTCCCGTTGGCGTGTCTTAACGGTGGAGG	720
Db	1804	TTGTGTATTCTGATAAGAGTCAGAGTTAACTCCCGTTGGCGTGTCTTAACGGTGGAGG	1863
Qy	721	GCAGTGTAGTCTGACGAGTACTCGTTGCTGCCGCGCGCCACACAGACATATAGCTGAC	780
Db	1864	GCAGTGTAGTCTGACGAGTACTCGTTGCTGCCGCGCGCCACACAGACATATAGCTGAC	1923
Qy	781	AGACTAACAGACTGTTCTCTTCCATCGGGTCTTTTCTGCAGTCAACCGTGGTGCAC	834
Db	1924	AGACTAACAGACTGTTCTCTTCCATCGGGTCTTTTCTGCAGTCAACCGTGGTGCAC	1977

QY	721	GCAGTGTAGTCTGAGCAGTACTCGTGTCTCCGCGCGCGCCACGACACATTAATAGCTGAC	780
Db	3023	GCAGTGTAGTCTGAGCAGTACTCGTGTCTCCGCGCGCGCCACGACACATTAATAGCTGAC	3082
QY	781	AGACTTACAGACTCTGTCCTTTCCATGGGTCTTTTCTGCAGTCCCGTCTGTCGAC	834
Db	3083	AGACTTACAGACTCTGTCCTTTCCATGGGTCTTTTCTGCAGTCCCGTCTGTCGAC	3136

RESULT 15  
US-08-910-647-1  
; Sequence 1, Application US/08910647  
; Patent No. 6251433  
; GENERAL INFORMATION:  
; APPLICANT: Zuckermann et al.  
; TITLE OF INVENTION: Compositions and Methods for  
; TITLE OF INVENTION: Polynucleotide Delivery

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RESULT 15
US 09-910-647-1
; Sequence 1, Application US/08910647
; Patent No. 6251433
;
; GENERAL INFORMATION:
; APPLICANT: Zuckermann et al.
; TITLE OF INVENTION: Compositions and Methods for
; TITLE OF INVENTION: Polynucleotide Delivery
;

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; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/910,647
; FILING DATE:
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Fujita, Sharon M.
; REGISTRATION NUMBER: 38,459
; REFERENCE/DOCKET NUMBER: 1218.002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 923-2706
; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9600 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-910-647-1

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Query Match          99.2%; Score 827.6; DB 3; Length 9600;
Best Local Similarity 99.5%; Pred. No. 2.4e-266;
Matches 830; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      1  GTAAGTACCGCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCTATGCTACTG 60
DB      5920  GTAAGTACCGCCTATAGACTCTATAGGCACACCCCTTTGGCTCTTATGCTATGCTACTG 5979

QY      61  TTTTGGCTTGGGCTTATACACCCCGCTCTTATGCTATAGTGTGATGCTATAGCTTAG 120
DB      5980  TTTTGGCTTGGGCTTATACACCCCGCTCTTATGCTATAGTGTGATGCTATAGCTTAG 6039

QY      121  CCTATAGGTGTGGTTATTGACCACTATTGACCACTCCCTATTGGTGACGATACTTTCC 180
DB      6040  CCTATAGGTGTGGTTATTGACCACTATTGACCACTCCCTATTGGTGACGATACTTTCC 6099

QY      181  ATTACTAATCCATAACATGGCTCTTTGGCAACACTATCTCTATTGGCTATATGCCAATAC 240
DB      6100  ATTACTAATCCATAACATGGCTCTTTGGCAACACTATCTCTATTGGCTATATGCCAATAC 6159

QY      241  TCTGTCTCTCAGAGACTTGACAGGACTCTGTATTTTACAGGATGGGTCCATTATTAT 300
DB      6160  TCTGTCTCTCAGAGACTTGACAGGACTCTGTATTTTACAGGATGGGTCCATTATTAT 6219

QY      301  TTACAAATTACATATACAAACGCGCTCCCGCTCCCGCGCAGTTTTTATTAAACATAG 360
DB      6220  TTACAAATTACATATACAAACGCGCTCCCGCTCCCGCGCAGTTTTTATTAAACATAG 6279

QY      361  CGTGGGATCTCCGACATCTCGGTAGTGTTCGGGACATGGGCTCTTCTCCGGTAGCGGC 420
DB      6280  CGTGGGATCTCCGACATCTCGGTAGTGTTCGGGACATGGGCTCTTCTCCGGTAGCGGC 6339

QY      421  GGAGCTTCCACATCCGAGCCCTGCTCCCATGCTCCAGGGCTCATGCTCGCTCGGCAGC 480
DB      6340  GGAGCTTCCACATCCGAGCCCTGCTCCCATGCTCCAGGGCTCATGCTCGCTCGGCAGC 6399

QY      481  TCCTTGCTCTTAACAGTGGAGGCCAGACTTAGGCACAGCACAAATGCCACCACCACT 540
DB      6400  TCCTTGCTCTTAACAGTGGAGGCCAGACTTAGGCACAGCACAAATGCCACCACCACT 6459

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